

## **Historic, archived document**

Do not assume content reflects current scientific knowledge, policies, or practices.



# Maine Agricultural Experiment Station

BULLETIN No. 133.

NOVEMBER, 1906.

## FERTILIZER INSPECTION.

35

---

This bulletin contains the analyses of samples collected by the Station of the brands of fertilizers licensed in 1906.

---

Requests for bulletins should be addressed to the

AGRICULTURAL EXPERIMENT STATION,  
Orono, Maine.

MAINE  
 AGRICULTURAL EXPERIMENT STATION  
 ORONO, MAINE.

---

THE STATION COUNCIL.

PRESIDENT GEORGE E. FELLOWS . . . . .	President
DIRECTOR CHARLES D. WOODS . . . . .	Secretary
JOHN A. ROBERTS, Norway . . . . .	
CHARLES L. JONES, Corinna . . . . .	Committee of Board of Trustees
ALBERT J. DURGIN, Orono . . . . .	
AUGUSTUS W. GILMAN, Foxcroft . . . . .	Commissioner of Agriculture
EUGENE H. LIBBY, Auburn . . . . .	State Grange
CHARLES S. POPE, Manchester . . . . .	State Pomological Society
RUTILLUS ALDEN, Winthrop . . . . .	State Dairymen's Association
JAMES M. BARTLETT . . . . .	
LUCIUS H. MERRILL . . . . .	
FREMONT L. RUSSELL . . . . .	
WELTON M. MUNSON . . . . .	
GILBERT M. GOWELL . . . . .	
EDITH M. PATCH . . . . .	
WARNER J. MORSE . . . . .	

*Members  
of the  
Station Staff*

THE STATION STAFF.

CHARLES D. WOODS . . . . .	Director
JAMES M. BARTLETT . . . . .	
LUCIUS H. MERRILL . . . . .	
HERMAN H. HANSON . . . . .	
ARTHUR C. WHITTIER . . . . .	
JOANNA C. COLCORD . . . . .	
FREMONT L. RUSSELL . . . . .	Veterinarian
WELTON M. MUNSON . . . . .	Pomologist
GILBERT M. GOWELL . . . . .	Poultry Investigations
WALTER ANDERSON . . . . .	
EDITH M. PATCH . . . . .	Entomologist
WARNER J. MORSE . . . . .	Vegetable Pathologist
ROYDEN L. HAMMOND . . . . .	Seed Analyst and Photographer
ANNIE M. SNOW . . . . .	Clerk and Stenographer to the Director
BLANCHE F. POOLER . . . . .	Stenographer
HENRY A. MILLETT . . . . .	Meteorological Observer and Janitor

## FERTILIZER INSPECTION.

CHAS. D. Woods, Director.

J. M. BARTLETT, Chemist in charge of Inspection Analyses.

The law regulating the sale of commercial fertilizers in this State calls for two bulletins each year. The first of these contains the analyses of the samples received from the manufacturer guaranteed to represent, within reasonable limits, the goods to be placed upon the market later. The second bulletin contains the analyses of the samples collected in the open market by a representative of the Station.

The analyses of the manufacturers' samples for this year were published in March. A number of samples were received so late that the analyses could not be included in the bulletin then issued. The results of these analyses are given in the tables on page 194.

In the tables that immediately follow, the analyses of the samples of commercial fertilizers collected in the open market in the spring of 1906 by the Station representative are given. As far as possible two samples of each brand were taken, an effort being made to get the duplicate from a distinct lot of the same brand in a different part of the State. For the most part the samples were taken in the large warehouses where a large amount of the goods were stored as received from the factory. They were taken in almost every instance from a large number of packages and in the presence of a representative of the manufacturers. The law requires that a duplicate sample be left with the dealer or agent for the use of the manufacturer in case the accuracy of the Station analysis is questioned. As this duplicate sample has been used only twice by the manufacturers in the past ten years they, with the understanding that they could have a portion of the Station sample if they should wish for it, kindly waived their right to the reserve sample for the present year. This is a saving in the time of the inspector and in the number of sampling jars that he needs to take with him.

[Continued on page 195.]

*Descriptive List of Station Samples, 1906.*

Station number.

Manufacturer, place of business and brand.

1251	AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y. A. A. C. Company, Aroostook Complete Manure.....
1253	A. A. C. Company, Aroostook Complete Manure.....
1254	A. A. C. Company, Aroostook High Grade.....
1256	Bradley's Alkaline Bone with Potash.....
1257	Bradley's Alkaline Bone with Potash.....
1258	Bradley's Complete Manure for Potatoes and Vegetables.....
1259	Bradley's Complete Mannre for Potatoes and Vegetables.....
1261	Bradley's Complete Manure with 10% Potash.....
1262	Bradley's Complete Manure with 10% Potash.....
1264	Bradley's Corn Phosphate.....
1265	Bradley's Corn Phosphate.....
1267	Bradley's Eureka Fertilizer.....
1268	Bradley's Eureka Fertilizer.....
1270	Bradley's Niagara Phosphate.....
1271	Bradley's Niagara Phosphate.....
1273	Bradley's Potato Fertilizer.....
1274	Bradley's Potato Fertilizer.....
1276	Bradley's Potato Mauure.....
1277	Bradley's Potato Manure.....
1279	Bradley's X. L. Superphosphate of Lime.....
1280	Bradley's X. L. Superphosphate of Lime.....
1281	Clark's Cove Bay State Fertilizer.....
1282	Clark's Cove Bay State Fertilizer.....
1283	Clark's Cove Bay State Fertilizer G. G.....
1284	Clark's Cove Bay State Fertilizer for Seeding Down.....
1285	Clark's Cove Bay State Fertilizer for Seeding Down.....
1286	Clark's Cove Defiance Complete Manure.....
1287	Clark's Cove Defiance Complete Manure.....
1288	Clark's Cove Great Planet Manure, A. A.....
1289	Clark's Cove Great Planet Manure, A. A.....
1290	Clark's Cove King Philip Alkaline Guano.....
1291	Clark's Cove Potato Fertilizer.....
1292	Clark's Cove Potato Fertilizer.....
1293	Clark's Cove Potato Manure.....
1294	Clark's Cove Potato Manure.....
1295	Cleveland Fertilizer for all Crops.....
1296	Cleveland Fertilizer for all Crops.....
1297	Cleveland High Grade Complete Manure.....
1298	Cleveland Potato Phosphate.....
1299	Cleveland Potato Phosphate.....
1301	Cleveland Seeding Down Fertilizer.....
1302	Cleveland Seeding Down Fertilizer.....
1303	Cleveland Superphosphate.....
1304	Cleveland Superphosphate.....
1305	Complete Manure with 10% Potash.....

## Analyses of Station Samples, 1906.

Station number.	NITROGEN.				PHOSPHORIC ACID.				POTASH.							
	Soluble in water.		Insoluble in water.		Total.		Soluble.		Reverted.		Available.		Total.		Found.	
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
1251	1.35	%	1.18	2.53	2.47	%	2.27	4.94	1.91	7.21	6.00	9.12	.....	10.38	10.00	
1253	1.23		1.36	2.59	2.47		3.94	3.18	1.75	7.12	6.00	8.87	.....	10.04	10.00	
1254	1.69		2.66	4.35	4.12		3.96	4.19	1.37	8.15	7.00	9.52	.....	6.31	7.00	
1256	.....		.....	.....	.....		3.72	7.37	1.61	11.09	11.00	12.70	12.00	2.04	2.00	
1257	.....		.....	.....	.....		6.78	4.51	1.25	11.29	11.00	12.54	12.00	2.16	2.00	
1258	1.73		1.36	3.09	3.30		4.53	3.87	1.22	8.40	8.00	9.62	9.00	7.01	7.00	
1259	1.91		1.54	3.45	3.30		5.39	3.59	1.20	8.98	8.00	10.18	9.00	6.58	7.00	
1261	1.81		1.50	3.31	3.30		4.31	2.66	1.15	6.97	6.00	8.12	7.00	9.72	10.00	
1262	2.13		1.28	3.41	3.30		4.27	2.83	1.16	7.10	6.00	8.26	7.00	9.57	10.00	
1264	1.42		0.86	2.28	2.06		4.94	3.52	2.45	8.46	8.00	10.91	10.00	2.06	1.50	
1265	1.03		1.06	2.09	2.06		5.12	3.45	2.00	8.57	8.00	10.57	10.00	2.67	1.50	
1267	0.70		0.62	1.32	1.03		5.58	2.68	1.24	8.26	8.00	9.50	10.00	2.16	2.00	
1268	0.45		0.62	1.07	1.03		5.12	3.72	1.94	8.84	8.00	10.78	10.00	2.12	2.00	
1270	0.25		0.80	1.05	0.82		4.82	3.95	0.96	8.77	7.00	9.73	8.00	1.79	1.00	
1271	0.57		0.76	1.33	0.82		5.49	4.03	1.33	9.52	7.00	10.85	8.00	2.15	1.00	
1273	1.09		0.98	2.07	2.06		3.49	6.33	2.27	9.82	8.00	12.08	10.00	3.05	3.00	
1274	1.47		0.66	2.13	2.06		6.49	2.62	2.17	9.11	8.00	11.28	10.00	3.04	3.00	
1276	1.04		1.54	2.58	2.50		3.00	3.55	1.94	6.55	6.00	8.49	8.00	5.08	5.00	
1277	1.44		1.19	2.63	2.50		3.19	3.79	2.33	6.98	6.00	9.31	8.00	4.94	5.00	
1279	1.53		1.10	2.63	2.50		6.11	3.62	2.14	9.73	9.00	11.87	11.00	2.52	2.00	
1280	1.31		1.16	2.47	2.50		6.28	2.51	2.93	8.79	9.00	11.72	11.00	2.28	2.00	
1281	1.36		1.25	2.61	2.50		5.57	3.07	2.88	8.64	9.00	11.52	11.00	2.35	2.00	
1282	1.40		1.16	2.56	2.50		6.12	3.15	2.42	9.27	9.00	11.69	11.00	2.80	2.00	
1283	1.21		0.88	2.09	2.06		4.50	3.44	2.55	7.94	8.00	10.49	10.00	1.95	1.50	
1284	0.38		0.84	1.12	1.03		5.02	3.30	1.12	8.32	8.00	9.44	10.00	1.90	2.00	
1285	0.42		0.72	1.15	1.03		5.90	2.62	2.23	8.52	8.00	10.75	10.00	2.19	2.00	
1286	0.40		0.96	1.36	0.82		5.68	2.56	2.33	8.24	7.00	10.57	8.00	2.21	1.00	
1287	0.65		0.78	1.43	0.82		5.06	2.78	2.73	7.84	7.00	10.57	8.00	2.38	1.00	
1288	2.22		1.34	3.56	3.30		3.08	4.63	3.42	7.71	8.00	11.13	9.00	7.72	7.00	
1289	1.75		1.48	3.23	3.30		5.90	2.41	2.04	8.31	8.00	10.35	9.00	7.48	7.00	
1290	0.36		0.74	1.10	1.03		5.81	2.67	2.41	8.48	8.00	10.89	10.00	2.09	2.00	
1291	1.01		1.08	2.69	2.06		5.18	2.75	2.72	7.93	8.00	10.65	10.00	3.49	3.00	
1292	1.02		1.00	2.02	2.06		3.62	4.97	2.78	8.59	8.00	11.37	10.00	3.23	3.00	
1293	1.13		1.14	2.27	2.50		2.33	4.33	2.70	6.66	6.00	9.36	8.00	5.14	5.00	
1294	1.10		1.86	2.96	2.50		4.86	2.63	2.25	7.49	6.00	9.74	8.00	5.83	5.00	
1295	0.84		0.81	1.65	1.03		5.47	2.53	2.59	8.00	8.00	10.59	10.00	2.03	2.00	
1296	0.55		0.56	1.11	1.03		4.96	3.46	2.17	8.42	8.00	10.59	10.00	2.82	2.00	
1297	1.37		1.58	2.95	3.30		5.55	2.61	2.17	8.16	8.00	10.33	9.00	7.91	7.00	
1298	1.12		0.96	2.08	2.06		5.34	2.62	2.90	7.96	8.00	10.86	10.00	3.04	3.00	
1299	1.29		0.92	2.21	2.06		3.05	5.16	3.29	8.21	8.00	11.50	10.00	3.23	3.00	
1301	0.23		0.82	1.05	1.03		4.26	4.04	2.77	8.30	8.00	11.07	10.00	2.12	2.00	
1302	0.51		0.66	1.17	1.03		3.58	2.94	2.37	8.32	8.00	10.69	10.00	2.08	2.00	
1303	1.16		1.01	2.17	2.06		4.66	3.13	2.82	7.79	8.00	10.61	10.00	1.95	1.50	
1304	1.06		1.06	2.12	2.06		3.03	4.32	2.81	7.35	8.00	10.16	10.00	1.74	1.50	
1305	2.00		1.17	3.17	3.30		3.84	2.58	0.71	6.42	6.00	7.13	7.00	9.85	10.00	

*Descriptive List of Station Samples, 1906.*

Station number.	Manufacturer, place of business and brand.
1307	Crocker's Ammoniated Corn Phosphate.....
1308	Crocker's Ammoniated Corn Phosphate.....
1309	Crocker's Aroostook Potato Special.....
1310	Crocker's Aroostook Potato Special.....
1311	Crocker's Grass and Oats Fertilizer.....
1312	Crocker's Grass and Oats Fertilizer.....
1314	Crocker's High Grade.....
1316	Crocker's New Rival Ammoniated Superphosphate .....
1317	Crocker's New Rival Ammoniated Superphosphate .....
1318	Crocker's Potato, Hop and Tobacco.....
1320	Crocker's Potato, Hop and Tobacco.....
1322	Crocker's Special Potato Manure.....
1323	Crocker's Special Potato Manure.....
1324	Cumberland Guano for all Crops.....
1326	Cumberland Potato Fertilizer.....
1327	Cumberland Potato Fertilizer.....
1328	Cumberland Seeding Down Manure.....
1329	Cumberland Seeding Down Manure.....
1330	Cumberland Superphosphate.....
1331	Cumberland Superphosphate.....
1332	Darling's Blood Bone and Potash.....
1333	Fine Ground Bone.....
1334	Grass and Lawn Top Dressing.....
1335	Great Eastern General Fertilizer.....
1336	Great Eastern General Fertilizer.....
1338	Great Eastern Grass and Oats Fertilizer.....
1339	Great Eastern Grass and Oats Fertilizer.....
1341	Great Eastern High Grade Potato Manure.....
1342	Great Eastern High Grade Potato Manure.....
1344	Great Eastern Northern Corn Special.....
1345	Great Eastern Northern Corn Special.....
1347	Great Eastern Potato Manure.....
1348	Great Eastern Potato Manure.....
1349	Great Eastern Potato Special.....
1351	High Grade Fertilizer with 10% Potash.....
1352	High Grade Fertilizer with 10% Potash .....
1353	High Grade Sulphate of Potash.....
1354	Lazaretto Aroostook Potato Guano .....
1355	Lazaretto Corn Guano.....
1356	Lazaretto High Grade Potato Manure.....
1357	Lazaretto High Grade Potato Manure.....
1358	Lazaretto Propellor Potato Guano .....
1360	Muriate of Potash.....
1361	Nitrate of Soda.....
1362	Otis' Potato Fertilizer.....

*Analyses of Station Samples, 1906.*

Station number.	NITROGEN.				PHOSPHORIC ACID.						POTASH.		
	Soluble in water.		Total.	Insoluble in water.	Found.	Soluble.	Reverted.	Insoluble.	Available.	Found.	Guaranteed.	Total.	Found.
	%	%	%	%	%	%	%	%	%	%	%	%	Guaranteed.
1307	1.21	0.84	2.05	2.06	4.42	3.44	2.81	7.86	8.00	10.67	.....	1.98	1.50
1308	1.20	1.13	2.33	2.06	5.23	2.97	1.85	8.20	8.00	10.05	.....	1.76	1.50
1309	0.88	1.12	2.00	2.06	5.33	3.30	2.77	8.63	8.00	11.40	.....	6.00	6.00
1310	1.27	0.74	2.01	2.06	6.22	2.54	2.26	8.76	8.00	11.02	.....	5.79	6.00
1311	.....	.....	.....	.....	5.26	5.57	1.95	10.63	11.00	12.58	.....	2.23	2.00
1312	.....	.....	.....	.....	6.27	4.26	1.75	10.53	11.00	12.28	.....	2.06	2.00
1314	1.71	1.52	3.23	3.29	4.58	3.57	1.91	8.15	8.00	10.06	.....	6.58	7.00
1316	6.48	0.82	1.30	1.03	2.39	5.82	3.07	8.21	8.00	11.28	.....	2.34	2.00
1317	0.58	0.74	1.32	1.03	4.75	3.61	2.49	8.36	8.00	10.85	.....	2.27	2.00
1318	1.07	1.04	2.11	2.06	3.88	3.98	2.55	7.86	8.00	10.41	.....	2.90	3.00
1320	0.89	1.08	1.97	2.06	4.91	3.22	1.84	8.13	8.00	9.97	.....	3.31	3.00
1322	1.82	1.42	3.24	3.29	3.03	4.51	3.11	7.54	6.00	10.65	.....	11.08	10.00
1323	2.12	1.30	3.42	3.29	2.28	3.64	3.39	5.92	6.00	9.31	.....	10.73	10.00
1324	0.26	0.78	1.04	1.03	5.65	3.14	1.88	8.79	8.00	10.67	10.00	2.29	2.00
1326	1.35	0.94	2.29	2.06	3.19	4.95	3.23	8.14	8.00	11.37	10.00	3.44	3.00
1327	1.42	0.72	2.14	2.06	6.67	2.21	1.93	8.88	8.00	10.81	10.00	3.24	3.04
1328	0.36	0.78	1.14	1.03	5.61	3.18	1.62	8.79	8.00	10.41	10.00	2.23	2.00
1329	0.42	0.72	1.14	1.03	4.75	4.63	1.75	9.38	8.00	11.13	10.00	2.26	2.00
1330	1.30	0.88	2.18	2.06	3.81	4.31	2.36	8.12	8.00	10.48	10.00	2.53	1.50
1331	1.19	0.88	2.07	2.06	4.56	3.06	3.11	7.62	8.00	10.73	10.00	2.34	1.50
1332	2.58	1.74	4.32	4.10	3.09	3.60	2.62	6.69	7.00	9.31	8.00	8.09	7.00
1333	.....	.....	2.13	2.47	.....	.....	.....	.....	27.87	22.80	.....	.....	.....
1334	4.89	0.04	4.93	3.91	1.28	4.56	1.34	5.84	5.00	7.18	6.00	2.62	2.00
1335	0.44	0.58	1.02	0.82	3.54	4.12	2.64	7.66	8.00	10.30	.....	3.73	4.00
1336	0.49	0.46	0.95	0.82	4.86	2.58	2.72	7.44	8.00	10.16	.....	4.01	4.00
1338	.....	.....	.....	.....	4.67	6.02	2.04	10.69	11.00	12.73	.....	2.10	2.00
1339	.....	.....	.....	.....	3.52	7.01	2.93	10.53	11.00	13.46	.....	2.02	2.00
1341	2.01	1.52	3.53	3.29	3.60	3.87	2.42	7.47	6.00	9.89	.....	10.19	10.00
1342	1.41	2.02	3.43	3.29	4.69	2.60	1.66	7.29	6.00	8.95	.....	10.07	10.00
1344	1.56	0.82	2.38	2.06	5.15	3.55	2.21	8.70	8.00	10.91	.....	2.24	1.50
1345	1.49	0.92	2.41	2.06	4.12	4.78	2.65	8.90	8.00	11.55	.....	1.88	1.50
1347	1.21	0.86	2.07	2.06	4.58	3.79	3.02	8.37	8.00	11.39	.....	3.40	3.00
1348	0.82	1.32	2.14	2.06	5.41	2.83	2.11	8.24	8.00	10.35	.....	3.25	3.00
1349	1.91	1.44	3.35	3.29	5.57	2.88	2.08	8.45	8.00	10.53	.....	7.32	7.00
1351	1.33	1.38	2.71	2.40	1.99	3.64	1.56	5.63	6.00	7.19	7.00	10.03	10.00
1352	1.33	1.18	2.51	2.40	4.47	2.85	0.97	7.32	6.00	8.29	7.00	10.49	10.00
1353	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45.28	48.00	.....
1354	0.44	0.54	0.98	0.82	5.15	3.15	2.21	8.30	8.00	10.51	.....	4.06	4.00
1355	0.72	1.44	2.16	1.64	4.61	2.81	2.55	7.42	8.00	9.97	.....	2.37	2.00
1356	1.91	1.34	3.25	3.29	3.62	2.58	2.25	6.20	6.00	8.45	.....	10.18	10.00
1357	2.17	1.34	3.51	3.29	2.87	3.13	2.93	6.00	6.00	8.93	.....	10.98	10.00
1358	0.87	1.18	2.05	2.06	5.53	2.68	2.64	8.16	8.00	10.80	.....	5.62	6.00
1360	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50.60	50.00	.....
1361	15.69	.....	15.69	15.80	.....	.....	.....	.....	.....	.....	3.11	3.00	.....
1362	1.35	0.68	2.03	2.06	6.30	2.16	1.80	8.46	8.00	10.26	10.00	.....	3.00

*Descriptive List of Station Samples, 1906.*

Station number.	Manufacturer, place of business and brand.
1363	Otis' Seeding Down Fertilizer.....
1364	Otis' Superphosphate .....
1365	Pacific Dissolved Bone and Potash .....
1366	Pacific Dissolved Bone and Potash.....
1368	Pacific Grass and Grain Fertilizer.....
1369	Pacific Grass and Grain Fertilizer.....
1370	Pacific High Grade General Fertilizer.....
1371	Pacific Nobsque Guano.....
1372	Pacific Potato Special.....
1373	Pacific Potato Special.....
1375	Packer's Union Animal Corn Fertilizer.....
1376	Packer's Union Animal Corn Fertilizer.....
1377	Packer's Union Economical Vegetable Guano .....
1378	Packer's Union Economical Vegetable Guano .....
1379	Packer's Union Gardener's Complete Manure.....
1380	Packer's Union High Grade.....
1382	Packer's Union Potato Manure .....
1383	Packer's Union Potato Manure.....
1384	Packer's Union Universal Fertilizer.....
1385	Packer's Union Universal Fertilizer .....
1387	Packer's Union, Wheat, Oats and Clover Fertilizer.....
1388	Packer's Union, Wheat, Oats and Clover Fertilizer.....
1389	Plain Superphosphate.. .....
1390	Quinnipiac Climax Phosphate for all Crops.....
1391	Quinnipiac Climax Phosphate for all Crops.....
1392	Quinnipiac Corn Manure.....
1393	Quinnipiac Corn Manure.....
1394	Quinnipiac Market Garden Manure .....
1395	Quinnipiac Market Garden Manure .....
1396	Quinnipiac Mohawk Fertilizer.....
1397	Quinnipiac Potato Manure.....
1398	Quinnipiac Potato Manure.....
1399	Quinnipiac Potato Phosphate.....
1400	Quinnipiac Potato Phosphate.....
1401	Read's Farmers' Friend Superphosphate.....
1402	Read's Farmers' Friend Superphosphate.....
1403	Read's High Grade Farmers' Fertilizer.....
1404	Read's Potato Manure.....
1405	Read's Practical Potato Special.....
1406	Read's Practical Potato Special.....
1407	Read's Standard Superphosphate.....
1408	Read's Standard Superphosphate.....
1411	Read's Sure Catch Fertilizer .....
1412	Read's Sure Catch Fertilizer .....
1413	Read's Vegetable and Vine Fertilizer.....

## Analyses of Station Samples, 1906.

Station number.	NITROGEN.				PHOSPHORIC ACID.						POTASH.		
	Soluble in water.	Insoluble in water.	Total.	Guaranteed.	Soluble.	Reverted.	Insoluble.	Available.	Guaranteed.	Total.	Guaranteed.	Found.	Guaranteed.
	Found.				Found.		Found.			Found.			
1363	% 0.60	% 0.57	% 1.17	% 1.03	% 5.33	% 3.21	% 2.40	% 8.54	% 8.00	% 10.94	% 10.00	% 2.22	% 2.00
1364	1.23	1.00	2.23	2.06	4.59	4.60	2.53	9.19	8.00	11.72	10.00	1.96	1.50
1365	.....	.....	.....	.....	6.35	4.00	1.68	10.35	10.00	12.03	11.00	2.09	2.00
1366	.....	.....	.....	.....	3.64	6.60	2.46	10.24	10.00	12.70	11.00	2.08	2.00
1368	0.21	0.68	0.99	0.82	3.59	3.00	1.94	6.59	7.00	8.53	8.00	1.75	1.00
1369	0.60	0.72	1.32	0.82	2.81	4.51	2.63	7.32	7.00	9.95	8.00	1.27	1.00
1370	1.87	1.30	3.17	3.30	5.63	2.71	2.25	8.34	8.00	10.59	9.00	7.07	7.00
1371	0.22	0.90	1.12	1.03	5.66	2.84	1.98	8.50	8.00	10.48	10.00	2.29	2.00
1372	1.11	0.96	2.07	2.06	4.71	3.03	3.15	7.74	8.00	10.89	10.00	3.66	3.00
1373	1.03	1.04	2.07	2.06	4.12	3.25	2.33	7.37	8.00	9.70	10.00	3.18	3.00
1375	1.34	1.18	2.52	2.47	5.63	4.14	2.53	9.77	9.00	12.30	.....	2.44	2.00
1376	1.18	1.30	2.48	2.47	5.45	2.30	2.56	8.75	9.00	11.31	.....	2.32	2.00
1377	0.83	0.56	1.39	1.25	3.99	2.85	2.65	6.84	6.00	9.49	.....	3.87	3.00
1378	0.51	0.84	1.35	1.25	3.51	2.97	1.85	6.48	6.00	8.33	.....	5.12	3.00
1379	0.97	1.50	2.47	2.47	1.29	5.38	1.91	6.67	6.00	8.58	.....	10.26	10.00
1380	2.03	1.22	3.25	3.29	5.85	2.63	1.81	8.48	8.00	10.29	.....	7.27	7.00
1382	0.85	1.18	2.03	2.06	5.69	2.83	2.21	8.52	8.00	10.73	.....	6.12	6.00
1383	1.42	0.98	2.40	2.06	4.18	5.53	2.70	9.71	8.00	12.41	.....	6.69	6.00
1384	0.61	0.44	1.05	0.82	5.38	3.43	2.21	8.81	8.00	11.02	.....	3.85	4.00
1385	0.66	0.76	1.42	0.82	4.24	3.45	2.64	7.69	8.00	10.33	.....	4.51	4.00
1387	.....	.....	.....	.....	6.86	3.22	2.11	10.08	11.00	12.19	.....	2.08	2.00
1388	.....	.....	.....	.....	3.08	9.17	1.47	12.25	11.00	13.72	.....	2.81	2.00
1389	.....	.....	.....	.....	5.90	9.32	2.48	15.22	14.00	17.70	15.00	.....	.....
1390	0.15	0.86	1.01	1.03	5.47	3.18	1.30	8.65	8.00	9.95	10.00	1.84	2.00
1391	0.79	0.56	1.35	1.03	5.50	3.05	2.49	8.55	8.00	11.04	10.00	2.26	2.00
1392	0.89	1.22	2.11	2.06	3.22	5.67	1.88	8.89	8.00	10.77	10.00	1.66	1.50
1393	1.11	1.04	2.15	2.06	4.85	3.51	2.25	8.36	8.00	10.61	10.00	2.80	1.50
1394	1.77	1.40	3.17	3.30	5.77	2.64	2.36	8.41	8.00	10.77	9.00	7.49	7.00
1395	1.89	1.60	3.49	3.30	3.83	4.09	2.14	7.92	8.00	10.06	9.00	7.07	7.00
1396	0.47	0.75	1.22	0.82	5.10	3.29	2.42	8.39	7.00	10.81	8.00	2.29	1.00
1397	1.15	1.36	2.51	2.50	3.08	3.45	2.02	6.53	6.00	8.55	8.00	4.78	5.00
1398	1.05	1.62	2.67	2.50	4.96	3.69	1.89	8.65	6.00	10.54	8.00	5.33	5.00
1399	1.06	0.96	2.02	2.06	3.29	5.76	2.77	9.05	8.00	11.82	10.00	3.43	3.00
1400	1.15	1.00	2.15	2.06	3.57	5.06	2.87	8.63	8.00	11.50	10.00	3.28	3.00
1401	1.07	0.94	2.01	2.06	3.64	4.71	3.09	8.35	8.00	11.44	10.00	3.42	3.00
1402	1.04	1.02	2.06	2.06	5.45	3.05	2.31	8.50	8.00	10.81	10.00	4.10	3.00
1403	2.01	1.30	3.31	3.30	4.04	2.51	0.83	6.55	6.00	7.38	7.00	9.73	10.00
1404	1.11	1.48	2.59	2.47	2.25	3.85	2.75	6.10	6.00	8.85	7.00	9.76	10.00
1405	0.60	0.42	1.02	0.82	3.96	2.44	2.32	6.40	5.00	8.72	5.00	6.42	8.00
1406	0.53	0.56	1.09	0.82	2.09	3.24	2.05	5.33	4.00	7.38	5.00	6.88	8.00
1407	0.39	0.64	1.03	0.82	3.92	4.03	2.13	7.95	8.00	10.08	10.00	3.94	4.00
1408	0.32	0.66	0.98	0.82	4.42	3.48	2.33	7.90	8.00	9.23	10.00	3.96	4.00
1411	.....	.....	.....	.....	4.50	5.12	2.14	9.62	10.00	11.76	11.00	2.04	2.00
1412	.....	.....	.....	.....	5.71	4.05	2.67	9.76	10.00	12.43	11.00	2.08	2.00
1413	1.09	1.14	2.23	2.06	4.88	3.63	2.40	8.51	8.00	10.91	10.00	4.95	6.00

*Descriptive List of Station Samples, 1906.*

Station number.

Manufacturer, place of business and brand.

1414	Read's Vegetable and Vine Fertilizer .....
1416	Soluble Pacific Guano.....
1417	Soluble Pacific Guano.....
1419	Standard A. Brand.....
1420	Standard A. Brand.....
1422	Standard Bone and Potash .....
1423	Standard Bone and Potash .....
1424	Standard Complete Manure.....
1425	Standard Complete Manure .....
1426	Standard Fertilizer.....
1427	Standard Fertilizer.....
1428	Standard Guano for all Crops .....
1429	Standard Guano for all Crops.....
1431	Standard Special for Potatoes.....
1432	Standard Special for Potatoes.....
1433	Williams & Clark's Americus Ammoniated Bone Superphosphate.....
1435	Williams & Clark's Americus Corn Phosphate .....
1436	Williams & Clark's Americus Corn Phosphate.....
1437	Williams & Clark's Americus High Grade Special.....
1438	Williams & Clark's Americus High Grade Special .....
1441	Williams & Clark's Americus Potato Manure .....
1442	Williams & Clark's Americus Potato Manure .....
1443	Williams & Clark's Royal Bone Phosphate for all Crops.....
1444	Williams & Clark's Royal Bone Phosphate for all Crops.....
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.
1450	Armour's All Soluble.....
1451	Armour's All Soluble.....
1452	Armour's Bone, Blood and Potash.....
1453	Armour's Bone, Blood and Potash.....
1454	Armour's Fruit and Root Crop Special.....
1455	Armour's Grain Grower .....
1456	Armour's Grain Grower .....
1457	Armour's High Grade Potato Fertilizer .....
1458	Armour's High Grade Potato Fertilizer .....
1459	Armour's Wheat, Corn and Oats Special Fertilizer .....
	BOWKER FERTILIZER COMPANY, BOSTON, MASS.
1464	Bowker's Bone, Blood and Potash.....
1465	Bowker's Bone, Blood and Potash.....
1468	Bowker's Bone and Potash Square Brand.....
1469	Bowker's Bone and Potash Square Brand.....
1470	Bowker's Corn Phosphate.....
1471	Bowker's Corn Phosphate.....
1473	Bowker's Early Potato Manure.....
1474	Bowker's Early Potato Manure .....
1475	Bowker's Farm and Garden Phosphate.....
1476	Bowker's Farm and Garden Phosphate.....
1477	Bowker's Fresh Ground Bone.....
1479	Bowker's Hill and Drill Phosphate.....

*Analyses of Station Samples, 1906.*

Station number.	NITROGEN.				PHOSPHORIC ACID.						POTASH.		
	Soluble in water.	Insoluble in water.	Total.	Guaranteed.	Soluble.	Reverted.	Insoluble.	Available.	Guaranteed.	Total.	Found.	Guaranteed.	
	Found.				Found.		Found.			Found.			
1414	0.78	1.23	2.01	2.06	5.63	2.54	2.28	8.17	8.00	16.45	10.00	5.37	6.00
1416	1.19	0.94	2.13	2.06	4.74	3.17	2.82	7.91	8.00	10.73	10.00	2.02	1.50
1417	1.11	0.96	2.07	2.06	4.67	3.93	2.36	8.60	8.00	10.96	10.00	1.97	1.50
1419	0.48	0.60	1.08	0.82	5.60	2.81	2.58	8.41	7.00	10.99	8.00	2.03	1.00
1420	0.56	0.74	1.30	0.82	3.33	4.33	2.67	7.66	7.00	10.33	8.00	1.31	1.00
1422	.....	.....	.....	.....	4.15	6.18	2.67	10.33	10.00	13.00	11.00	2.05	2.00
1423	2.01	1.57	3.58	3.30	3.96	7.30	2.58	11.26	10.00	13.84	11.00	2.01	2.00
1424	1.79	1.40	3.19	3.30	5.52	2.84	2.55	8.36	8.00	10.91	9.00	7.74	7.00
1426	1.31	0.94	2.25	2.06	5.02	3.05	3.62	8.07	8.00	11.69	10.00	1.97	1.50
1427	0.98	1.26	2.24	2.06	2.86	5.02	2.07	7.88	8.00	9.95	10.00	1.74	1.50
1428	0.56	0.62	1.18	1.03	5.33	2.81	1.38	8.14	8.00	3.52	10.00	2.14	2.00
1429	0.55	0.72	1.27	1.03	5.58	2.64	2.90	8.22	8.00	11.12	10.00	2.14	2.00
1431	0.93	1.08	2.01	2.06	5.71	2.54	2.63	8.25	8.00	10.88	10.00	2.85	3.00
1432	1.37	0.90	2.27	2.06	3.09	5.11	4.21	8.20	8.00	12.41	10.00	3.29	3.00
1433	1.51	0.92	2.43	2.50	6.59	2.70	2.99	9.29	9.00	12.28	11.00	2.25	2.00
1435	1.14	0.96	2.10	2.06	4.37	3.68	2.73	8.05	8.00	10.78	10.00	2.01	1.50
1436	1.48	0.78	2.26	2.06	5.06	3.18	3.23	8.24	8.00	11.47	10.00	1.93	1.50
1437	1.79	1.46	3.25	3.30	6.28	2.08	2.02	8.36	8.00	10.38	9.00	6.85	7.00
1438	1.88	1.47	3.35	3.30	5.66	3.09	2.02	8.75	8.00	10.77	9.00	7.45	7.00
1441	1.10	0.92	2.02	2.06	3.21	4.66	3.65	7.87	8.00	11.52	10.00	3.31	3.00
1442	1.43	0.66	2.09	2.06	6.00	2.32	2.77	8.32	8.00	11.09	10.00	3.18	3.00
1443	0.66	0.56	1.22	1.03	5.09	2.63	2.74	7.72	8.00	10.46	10.00	2.18	2.00
1444	0.56	0.54	1.10	1.03	5.68	2.47	2.62	8.15	8.00	10.77	10.00	2.18	2.00
1450	0.91	2.12	3.03	2.88	6.09	2.94	1.05	9.03	8.00	10.08	10.00	4.13	4.00
1451	1.21	1.18	2.39	2.88	6.62	3.24	1.19	9.86	8.00	11.05	10.00	3.91	4.00
1452	0.29	3.38	3.67	4.11	5.60	2.77	0.64	8.37	8.00	9.01	10.00	7.75	7.00
1453	1.81	2.32	4.13	4.11	6.12	1.39	1.02	7.51	8.00	8.35	10.00	9.04	7.00
1454	0.64	1.22	1.86	1.65	5.79	2.55	1.10	8.34	8.00	9.44	10.00	5.77	5.00
1455	0.86	0.81	1.67	1.65	5.65	2.70	1.30	8.35	8.00	9.65	10.00	2.07	2.00
1456	0.65	1.02	1.67	1.65	5.30	3.27	1.53	8.57	8.00	10.10	10.00	2.03	2.00
1457	0.69	0.89	1.58	1.65	5.93	2.69	0.84	8.62	8.00	9.46	10.00	9.39	10.00
1458	0.89	0.76	1.65	1.65	5.74	2.48	0.87	8.22	8.00	9.09	10.00	10.33	10.00
1459	0.15	6.77	0.92	1.82	3.32	4.78	1.79	8.10	7.00	9.89	9.00	1.03	1.00
1464	1.73	2.16	3.89	4.10	4.90	2.40	2.21	7.30	8.00	9.51	10.00	7.00	7.00
1465	2.55	1.60	4.15	4.10	4.83	3.08	1.82	7.91	8.00	9.73	10.00	7.03	7.00
1468	1.27	0.72	1.99	1.65	5.85	1.83	2.97	7.68	6.00	10.65	7.00	2.56	2.00
1469	0.49	1.60	2.09	1.65	5.45	2.57	2.19	8.02	6.00	10.21	7.00	2.02	2.00
1470	1.15	0.88	2.03	1.65	4.86	3.14	2.85	8.00	8.00	10.85	9.00	2.75	2.00
1471	0.27	1.72	1.99	1.65	4.83	2.73	2.54	7.56	8.00	10.10	9.00	2.16	2.00
1473	1.92	1.36	3.28	3.29	3.51	4.27	2.67	7.78	7.00	10.45	8.00	7.54	7.00
1474	1.95	1.50	3.45	3.29	5.06	2.49	2.50	7.55	7.00	10.05	8.00	7.58	7.00
1475	1.23	1.72	1.95	1.65	4.93	3.16	3.07	8.09	8.00	11.16	9.00	2.45	2.00
1476	0.95	0.86	1.81	1.65	3.22	4.78	2.21	8.00	8.00	10.21	9.00	2.08	2.00
1477	.....	.....	2.66	2.47	.....	.....	.....	.....	.....	24.00	18.00	.....	.....
1479	1.54	0.88	2.42	2.47	6.01	3.26	3.00	9.27	9.00	12.27	10.00	2.30	2.00

*Descriptive List of Station Samples, 1906.*

Station number.

Manufacturer, place of business and brand.

1480	Bowker's Hill and Drill Phosphate.....
1481	Bowker's Market Garden Fertilizer.....
1482	Bowker's Market Garden Fertilizer.....
1484	Bowker's Potash Bone.....
1486	Bowker's Potash or Staple Phosphate.....
1488	Bowker's Potato and Vegetable Fertilizer.....
1489	Bowker's Potato and Vegetable Fertilizer.....
1491	Bowker's Potato and Vegetable Phosphate.....
1492	Bowker's Potato and Vegetable Phosphate.....
1493	Bowker's Six Per Cent Potato Fertilizer.....
1494	Bowker's Six Per Cent Potato Fertilizer.....
1496	Bowker's Superphosphate with Potash for Grass and Grain.....
1497	Bowker's Superphosphate with Potash for Grass and Grain.....
1498	Bowker's Sure Crop Phosphate.....
1499	Bowker's Sure Crop Phosphate.....
1500	Bowker's Ten Per Cent Manure.....
1501	Monticello Grange Chemicals.....
1502	Special Potato Manure for the Grange.....
1503	Stockbridge Special Manure for Corn (Class D 107).....
1504	Stockbridge Special Manure for Corn (Class D 107).....
1506	Stockbridge's Special Manure for Grass (Class F 56).....
1507	Stockbridge's Special Manure for Grass (Class F 56).....
1509	Stockbridge's Special Manure for Potatoes (Class D 610).....
1510	Stockbridge's Special Manure for Potatoes (Class D 610).....
1511	Stockbridge's Special Manure for Seeding Down (Class C 610).....
	COE-MORTIMER COMPANY, NEW YORK, N. Y.
1518	E. Frank Coe's Celebrated Special Potato Fertilizer.....
1519	E. Frank Coe's Celebrated Special Potato Fertilizer.....
1521	E. Frank Coe's Columbian Corn Fertilizer.....
1522	E. Frank Coe's Columbian Corn Fertilizer.....
1524	E. Frank Coe's Columbian Potato Fertilizer.....
1525	E. Frank Coe's Columbian Potato Fertilizer.....
1527	F. Frank Coe's Excelsior Potato Fertilizer.....
1528	F. Frank Coe's Excelsior Potato Fertilizer.....
1529	F. Frank Coe's Grass and Grain Special Fertilizer.....
1530	E. Frank Coe's Grass and Grain Special Fertilizer.....
1531	E. Frank Coe's High Grade Ammoniated Bone Superphosphate.....
1532	E. Frank Coe's High Grade Ammoniated Bone Superphosphate.....
1533	E. Frank Coe's High Grade Potato Fertilizer.....
1534	E. Frank Coe's High Grade Potato Fertilizer.....
1536	E. Frank Coe's New Englander Corn Fertilizer.....
1537	E. Frank Coe's New Englander Corn Fertilizer.....
1539	E. Frank Coe's New Englander Potato Fertilizer.....
1540	E. Frank Coe's New Englander Potato Fertilizer.....
1542	E. Frank Coe's Prize Brand Grain and Grass.....
1543	E. Frank Coe's Prize Brand Grain and Grass.....
1545	E. Frank Coe's Red Brand Excelsior Guano.....

## Analyses of Station Samples, 1906.

Station number.	NITROGEN.				PHOSPHORIC ACID.						POTASH.		
	Soluble in water.		Total.		Soluble.			Available.			Total.		
	Insoluble in water.	Found.	Guaranteed.	Total.	Reverted.	Insoluble.	Found.	Guaranteed.	Insoluble.	Found.	Guaranteed.	Found.	Guaranteed.
1480	%	%	%	%	%	%	%	%	%	%	%	%	%
1480	1.49	0.98	2.47	2.47	6.89	2.41	2.41	9.30	9.00	11.71	10.00	2.37	2.00
1481	1.29	1.44	2.73	2.47	1.36	5.15	2.17	6.51	6.00	8.68	7.00	10.15	10.00
1482	1.70	1.12	2.82	2.47	4.29	2.41	1.63	6.70	6.00	8.33	7.00	9.65	10.00
1484	0.52	0.64	1.16	0.82	5.87	2.94	2.32	8.81	6.00	11.18	7.00	2.11	2.00
1486	0.61	0.58	1.19	0.82	5.42	2.86	2.50	8.28	8.00	10.78	9.00	3.34	3.00
1488	1.73	1.02	2.75	2.47	5.07	3.50	3.70	8.57	8.00	12.27	10.00	4.32	4.00
1489	1.50	0.92	2.42	2.47	6.67	2.27	2.45	8.94	8.00	11.39	10.00	4.39	4.00
1491	0.87	0.86	1.73	1.65	5.84	2.81	2.44	8.65	9.00	11.09	10.00	2.08	2.00
1492	0.90	0.80	1.70	1.65	6.22	2.67	2.56	8.89	9.00	11.45	10.00	2.24	2.00
1493	0.82	0.68	1.50	0.82	4.18	2.91	2.40	7.09	6.00	9.49	7.00	7.27	6.00
1494	0.44	0.64	1.08	0.82	5.45	2.69	2.26	8.14	6.00	10.40	7.00	5.41	6.00
1496	.....	.....	.....	.....	5.58	5.10	2.32	10.68	10.00	13.00	11.00	2.02	2.00
1497	.....	.....	.....	.....	6.94	3.18	0.85	10.12	10.00	10.97	11.00	1.76	2.00
1498	0.66	0.88	1.54	0.82	5.55	2.80	2.50	8.35	9.00	10.85	10.00	2.19	2.00
1499	0.44	0.70	1.14	0.82	5.82	2.98	2.27	8.80	9.00	11.07	10.00	2.12	2.00
1500	0.49	0.54	1.03	0.82	3.80	3.15	2.49	6.95	5.00	9.44	6.00	7.80	10.00
1501	0.96	1.56	2.52	2.50	6.41	1.81	1.11	8.22	8.00	9.33	12.00	4.01	4.00
1502	0.95	0.84	1.79	1.50	4.47	4.59	2.39	9.06	9.00	11.45	12.00	12.06	12.00
1503	0.87	2.54	3.41	3.29	2.95	5.93	5.00	8.88	10.00	13.88	11.00	6.29	7.00
1504	1.13	2.56	3.69	3.29	4.15	5.01	3.98	9.16	10.00	13.14	11.00	5.96	7.00
1506	1.90	3.20	5.10	4.94	4.90	1.74	2.16	6.64	4.00	8.80	6.00	6.83	6.00
1507	3.72	1.00	4.72	4.94	1.99	3.42	2.68	5.41	4.00	8.09	6.00	5.58	6.00
1509	1.75	1.28	3.03	3.29	4.16	2.12	1.10	6.28	6.00	7.38	7.00	9.95	10.00
1510	2.05	1.14	3.19	3.29	3.97	2.06	2.23	6.03	6.00	8.26	7.00	9.53	10.00
1511	1.23	1.22	2.45	2.47	4.04	2.97	2.08	7.01	6.00	9.09	9.00	10.40	10.00
1518	1.15	0.56	1.71	1.65	6.49	1.56	1.79	8.05	8.00	9.84	10.00	4.00	4.00
1519	1.19	0.54	1.73	1.65	6.52	1.87	1.71	8.39	8.00	10.10	10.00	3.84	4.00
1521	0.69	1.04	1.73	1.23	6.33	2.08	2.93	8.36	8.50	11.29	10.50	2.84	2.50
1522	0.45	0.96	1.41	1.23	5.71	2.26	2.70	7.97	8.50	10.67	10.50	2.73	2.50
1524	0.67	0.75	1.42	1.23	6.41	1.87	1.99	8.28	8.50	10.27	10.50	2.56	2.50
1525	0.86	0.56	1.42	1.23	7.19	1.90	2.12	9.09	8.50	11.21	10.50	2.90	2.50
1527	1.94	0.58	2.52	2.47	6.28	1.60	2.30	7.88	7.00	10.18	9.00	8.09	8.00
1528	1.88	0.78	2.66	2.47	5.57	1.14	1.74	6.71	7.00	8.45	9.00	8.68	8.00
1529	0.66	0.44	1.10	0.80	6.95	1.98	1.82	8.93	8.50	10.75	.....	1.66	1.50
1530	0.64	0.44	1.08	0.80	6.95	2.15	2.27	9.10	8.50	11.37	.....	1.67	1.50
1531	1.56	0.98	2.54	1.85	7.35	1.87	2.42	9.22	9.00	11.64	11.00	2.90	2.25
1532	1.03	0.80	1.83	1.85	7.02	2.01	3.33	9.03	9.00	12.36	11.00	2.64	2.25
1533	1.47	1.21	2.68	2.40	7.45	1.08	2.16	8.53	8.00	10.69	10.00	5.15	6.00
1534	1.48	1.06	2.54	2.40	6.62	1.52	1.68	8.14	8.00	9.82	10.00	6.22	6.00
1536	0.94	0.64	1.58	0.80	6.05	2.34	2.39	8.39	7.50	10.78	9.00	3.56	3.00
1537	0.83	0.58	1.41	0.80	5.69	2.47	4.11	8.16	7.50	12.27	9.00	4.48	3.00
1539	0.35	0.83	1.18	0.80	4.77	2.37	4.66	7.14	7.50	11.80	9.00	3.45	3.00
1540	0.41	1.02	1.43	0.80	5.45	2.19	3.60	7.64	7.50	11.24	9.00	3.09	3.00
1542	.....	.....	.....	.....	7.94	3.10	2.23	11.04	10.50	13.27	12.00	1.95	2.00
1543	.....	.....	.....	.....	7.43	3.64	2.07	11.07	10.50	13.14	12.00	1.80	2.00
1545	1.87	1.02	2.89	3.30	6.99	1.88	1.96	8.87	9.00	10.83	10.00	6.12	6.00

*Descriptive List of Station Samples, 1906.*

Station number.

Manufacturer, place of business and brand.

1546	E. Frank Coe's Red Brand Excelsior Guano.....
1548	E. Frank Coe's Standard grade Ammoniated Bone Superphosphate.....
1549	E. Frank Coe's Standard Grade Ammoniated Bone Superphosphate..... F. J. CARSLEY, DEXTER, ME.
1555	Dexter Special Potato Manure..... HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.
1559	Hubbard's Bone, Blood and Potash.....
1560	Hubbard's Farmers' I. X. L Superphosphate.....
1561	Hubbard's Royal Ensign..... JOHN WATSON COMPANY, HOULTON, ME.
1565	Watson's Improved High Grade Potato Manure..... LISTERS AGRICULTURAL CHEMICAL WORKS, NEWARK, N. J.
1568	Lister's Animal Bone and Potash.....
1569	Lister's Animal Bone and Potash.....
1570	Lister's High Grade Special for Spring Crops.....
1571	Lister's Oneida Special.....
1572	Lister's Oneida Special.....
1573	Lister's Potato Manure.....
1574	Lister's Potato Manure.....
1575	Lister's Pure Raw Bone Meal.....
1576	Lister's Special Corn Fertilizer.....
1577	Lister's Special Corn Fertilizer.....
1578	Lister's Special Potato Fertilizer.....
1579	Lister's Special Potato Fertilizer.....
1580	Lister's Success Fertilizer.....
1581	Lister's Success Fertilizer .....
1582	Lister's 10% Potato Grower.....
1583	Lister's 10% Potato Grower..... NATIONAL FERTILIZER COMPANY, BRIDGEPORT, CONN.
1586	Chittenden's Complete Root Fertilizer.....
1587	Chittenden's Eureka Potato Fertilizer.....
1588	Chittenden's Excelsior Potato Fertilizer.....
1589	Chittenden's Excelsior Potato Fertilizer.....
1590	Chittenden's Market Garden Fertilizer..... NEW ENGLAND FERTILIZER COMPANY, BOSTON, MASS.
1592	New England Complete Manure.....
1594	New England Corn and Grain Fertilizer.....
1595	New England Corn and Grain Fertilizer.....
1597	New England Corn Phosphate.....
1598	New England Corn Phosphate.....
1600	New England High Grade Potato Fertilizer.....
1601	New England High Grade Potato Fertilizer.....
1603	New England High Grade Special 10 Per Cent Potash.....
1604	New England High Grade Special 10 Per Cent Potash.....
1605	New England Market Garden Manure.....
1607	New England Potato Fertilizer.....
1608	New England Potato Fertilizer.....
1609	New England Potato Grower.....
1610	New England Potato Grower.....
1612	New England Superphosphate.....
1613	New England Superphosphate.....

## Analyses of Station Samples, 1906.

Station number.	NITROGEN.				PHOSPHORIC ACID.						POTASH.		
	Soluble in water.	Insoluble in water.	Total.	Guaranteed	Soluble.	Reverted.	Insoluble.	Available.	Total.	Guaranteed	Found.	Guaranteed.	
	Found.				Found.		Found.	Guaranteed.	Found.				
1546	2.28	1.32	3.60	3.30	7.13	1.60	1.35	8.73	9.00	10.08	10.00	6.79	6.00
1548	0.44	0.92	1.36	1.20	6.71	2.16	1.42	8.87	8.50	10.29	10.00	2.14	2.00
1549	0.73	0.90	1.63	1.20	8.37	1.28	2.11	9.65	8.50	11.76	10.00	2.61	2.00
1555	2.39	1.08	3.47	3.70	5.81	1.54	2.19	7.35	7.00	9.54	8.00	9.87	10.00
1559	2.39	1.02	3.41	3.29	4.75	3.04	0.98	7.89	8.00	8.87	9.00	7.34	7.00
1560	0.95	1.22	2.17	1.65	3.19	4.88	1.79	8.07	8.00	9.86	9.00	2.18	2.00
1561	1.31	1.10	2.41	2.47	3.16	3.88	2.32	7.04	8.00	9.36	9.00	4.02	4.00
1565	1.96	1.21	3.17	3.00	3.81	3.43	2.81	7.24	6.00	10.05	7.00	5.24	5.00
1568	.....	.....	.....	.....	6.86	3.65	1.71	10.51	11.00	12.22	12.00	2.01	2.00
1569	.....	.....	.....	.....	4.08	6.41	2.51	10.49	11.00	13.00	12.00	2.11	2.00
1570	1.09	0.72	1.81	1.65	5.90	2.32	1.58	8.20	8.00	9.78	9.26	8.81	10.00
1571	0.73	0.67	1.40	0.82	3.54	4.21	2.46	7.75	7.00	10.21	8.00	1.32	1.00
1572	0.63	0.64	1.27	0.82	5.63	2.60	2.36	8.23	7.00	10.59	8.00	2.14	1.00
1573	1.65	1.50	3.15	3.30	4.94	3.29	2.39	8.23	8.00	10.62	9.00	6.14	7.00
1574	2.81	0.46	3.27	3.30	5.36	3.17	1.63	8.53	8.00	10.16	9.00	6.81	7.00
1575	0.71	1.94	2.65	2.68	.....	.....	.....	.....	.....	22.49	23.00	.....	.....
1576	1.25	0.86	2.11	1.65	4.61	3.34	2.54	7.95	8.00	10.49	9.00	3.19	3.00
1577	1.13	0.74	1.87	1.65	4.96	2.92	2.93	7.88	8.00	10.81	9.00	3.22	3.00
1578	1.13	0.74	1.87	1.65	5.39	2.45	2.78	7.84	8.00	10.62	9.00	3.06	3.00
1579	0.94	0.99	1.93	1.65	5.38	2.48	2.36	7.86	8.00	10.22	9.00	2.84	3.00
1580	0.92	0.38	1.30	1.25	6.28	3.09	3.13	9.37	9.00	12.50	11.00	2.72	2.00
1581	0.62	0.86	1.48	1.25	5.41	4.07	1.59	9.48	9.00	11.07	11.00	2.23	2.00
1582	1.83	1.30	3.13	3.30	4.16	3.05	1.37	7.21	6.00	8.58	.....	10.14	10.00
1583	2.01	1.22	3.23	3.30	3.22	2.82	2.35	6.04	6.00	8.39	.....	10.62	10.00
1586	1.60	1.54	3.14	3.30	6.30	1.82	1.80	8.12	8.00	9.92	10.00	7.67	6.00
1587	1.85	1.34	3.19	2.40	2.89	3.88	2.67	6.77	6.00	9.44	8.00	10.37	10.00
1588	2.31	1.16	3.47	3.30	2.41	3.25	3.56	5.66	6.00	9.22	8.00	11.19	10.00
1589	2.08	1.42	3.50	3.30	4.63	0.22	3.46	4.85	6.00	8.31	8.00	9.70	10.00
1590	1.66	0.64	2.30	2.40	3.54	3.08	2.42	6.62	6.00	9.04	8.00	5.11	5.00
1592	2.16	1.15	3.31	3.28	4.37	2.79	1.53	7.16	6.00	8.69	7.00	8.30	10.00
1594	0.57	0.70	1.27	1.22	4.94	2.13	2.37	7.07	7.00	9.44	.....	2.33	2.00
1595	0.63	0.68	1.31	1.22	5.02	2.32	1.22	7.34	7.00	8.56	.....	2.01	2.00
1597	0.99	0.74	1.73	1.64	6.30	1.96	3.14	8.26	8.00	11.40	9.00	3.03	3.00
1598	1.00	0.78	1.78	1.64	6.64	1.80	2.55	8.44	8.00	10.99	9.00	3.17	3.00
1600	1.18	1.34	2.52	2.46	5.17	3.71	3.66	8.88	8.00	12.54	9.00	6.18	6.00
1601	1.20	1.10	2.30	2.46	4.66	3.28	2.32	7.94	8.00	10.26	9.00	6.76	6.00
1603	2.14	1.13	3.27	3.69	4.10	4.45	2.14	8.55	7.00	10.69	8.00	9.40	10.00
1604	1.79	1.70	3.49	3.69	5.87	1.97	2.27	7.84	7.00	10.11	8.00	10.16	10.00
1605	2.64	1.52	4.16	4.10	4.55	4.61	2.40	9.16	7.00	11.56	8.00	5.39	7.00
1607	1.14	0.82	1.96	1.64	5.63	2.64	1.54	8.27	7.00	9.81	8.00	4.14	4.00
1608	1.06	0.82	1.88	1.64	5.45	2.41	1.53	7.86	7.00	9.39	8.00	4.33	4.00
1609	1.10	1.24	2.34	2.46	4.83	2.11	2.02	6.94	6.00	8.96	7.00	9.69	10.00
1610	1.12	1.10	2.22	2.46	3.37	4.06	2.09	7.43	6.00	9.52	7.00	9.80	10.00
1612	1.22	1.25	2.47	2.46	6.27	3.22	2.90	9.49	9.00	12.39	10.00	4.00	4.00
1613	1.27	1.10	2.37	2.46	6.86	3.39	2.96	10.25	9.00	13.21	10.00	3.87	4.00

*Descriptive List of Station Samples, 1906.*

Station number.	Manufacturer, place of business and brand.
1617	OLDS & WHIPPLE, HARTFORD, CONN. Excelsior Potato Fertilizer.....
1620	PARMENTER & POLSLEY FERTILIZER COMPANY, PEABODY, MASS. A. A. Brand.....
1621	Aroostook Special.....
1622	Aroostook Special.....
1623	Fine Ground Bone.....
1624	Muriate of Potash.....
1625	Nitrate of Soda.....
1626	P. P. Grain Grower.....
1627	P. P. Potato Fertilizer.....
1628	Plymouth Rock Brand Fertilizer.....
1629	Special Potato Fertilizer.....
1630	Star Brand Superphosphate..... PORTLAND RENDERING COMPANY, PORTLAND, ME.
1635	Bone Dust Tankage.....
1636	Bone Dust Tankage..... R. T. PRENTISS COMPANY, PRESQUE ISLE, ME.
1640	Prentiss Aroostook Complete Fertilizer.....
1641	Prentiss Aroostook Complete Fertilizer.....
1642	Prentiss Aroostook Special.....
1643	Prentiss Aroostook Standard.....
1644	Tuscarora Fruit and Potato Fertilizer.....
1645	Tuscarora Fruit and Potato Fertilizer..... PROVINCIAL CHEMICAL FERTILIZER COMPANY, ST. JOHN, N. B.
1647	Special Potato Phosphate.....
1648	Ten Per Cent Aroostook Complete Potato..... P. H. READ, FORT FAIRFIELD, ME.
1649	Read's Potato Grower..... RUSSIA CEMENT COMPANY, GLOUCESTER, MASS.
1652	Essex A1 Superphosphate.....
1653	Essex Complete Manure for Aroostook County Crops .....
1654	Essex Market Garden and Potato Manure.....
1655	Essex XXX Fish and Potash.....
1656	Essex XXX Fish and Potash..... SAGADAHOC FERTILIZER COMPANY, BOWDOINHAM, ME.
1661	Acid Phosphate.....
1662	Aroostook Potato Manure.....
1663	Aroostook Potato Manure.....
1664	Dirigo Grass and Grain Fertilizer.....
1666	Muriate of Potash.....
1667	Nitrate of Soda.....
1668	Sagadahoc High Grade Superphosphate.....
1669	Sagadahoc Special Potato Fertilizer.....
1670	Sagadahoc Special Potato Fertilizer.....
1671	XX Chemical Fertilizer.....
1672	Yankee Fertilizer.....
1673	Yankee Fertilizer.....
1674	3-6-10 Fertilizer..... J. W. SANBORN, GILMANTON, N. H.
1676	Sanborn's Special Potato Fertilizer..... SCIENTIFIC FERTILIZER COMPANY, BUFFALO, N. Y.
1678	Scientific Potato and Vegetable Fertilizer.....

## Analyses of Station Samples, 1906.

Station number.	NITROGEN.				PHOSPHORIC ACID.						POTASH.		
	Soluble in water.	Insoluble in water.	Total.		Soluble.	Reverted.	Insoluble.	Available.	Total.		Found.	Guaranteed.	
	%	%	Found.	Guaranteed.	%	%	%	Found.	Guaranteed.	Found.	Guaranteed.		
1617	1.23	2.18	3.41	3.30	0.51	5.86	1.30	6.37	6.00	7.67	9.73	10.00	
1620	2.37	1.61	3.98	4.10	3.72	4.51	3.06	8.23	7.00	11.29	8.00	8.24	8.00
1621	1.69	1.78	3.47	3.29	4.91	2.95	2.28	7.86	7.00	10.14	8.00	9.87	10.00
1622	2.01	1.58	3.59	3.29	4.37	4.29	2.70	8.66	7.00	11.36	8.00	9.48	10.00
1623	1.00	1.48	2.48	2.44	.....	.....	.....	.....	5.00	25.76	23.00	.....	.....
1624	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.52	50.00	
1625	15.41	15.41	14.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	
1626	0.51	0.50	1.01	0.82	5.38	2.10	1.53	7.48	7.00	9.01	8.00	2.30	2.00
1627	0.52	1.14	1.66	1.64	3.32	3.51	1.86	6.83	6.00	8.69	7.00	4.90	6.00
1628	1.19	1.18	2.37	2.47	5.33	3.36	2.17	8.69	8.00	10.86	9.00	4.08	4.00
1629	1.89	1.18	3.07	3.29	5.30	3.73	2.17	9.03	8.00	11.20	9.00	7.34	7.00
1630	0.68	0.84	1.52	1.64	4.23	3.39	2.25	7.53	7.00	9.78	8.00	2.62	2.50
1635	0.62	4.20	4.32	5.50	.....	.....	.....	.....	17.26	16.00	.....	.....	
1636	0.50	4.46	4.96	5.50	.....	.....	.....	.....	16.72	16.00	.....	.....	
1640	2.31	0.92	3.23	3.29	3.78	3.09	1.74	6.87	6.00	8.61	8.00	10.07	10.00
1641	2.26	0.92	3.18	3.29	3.46	3.23	1.43	6.69	6.00	8.12	8.00	9.87	10.00
1642	1.49	1.18	2.67	2.88	6.86	1.93	0.19	8.79	7.00	8.98	8.00	8.44	8.00
1643	1.15	1.04	2.19	2.47	7.37	1.75	0.15	9.12	6.00	9.27	8.00	5.11	5.00
1644	1.05	0.58	1.63	1.65	6.06	2.72	0.92	8.78	8.00	9.70	10.00	8.63	10.00
1645	1.07	0.48	1.55	1.65	5.73	2.42	0.54	8.15	8.00	8.69	10.00	10.01	10.00
1647	1.25	1.14	2.39	2.00	4.80	2.48	7.62	7.28	8.00	14.90	.....	6.25	6.00
1648	2.18	0.92	3.10	3.29	4.90	2.37	3.99	7.27	8.00	11.26	.....	9.62	10.00
1649	1.76	1.59	3.35	3.30	1.55	4.28	3.28	5.83	6.00	9.11	7.00	6.77	8.00
1652	0.10	1.06	1.16	1.00	0.93	5.13	4.95	6.06	7.00	11.01	9.00	2.19	2.00
1653	1.19	2.18	3.37	3.30	5.42	3.92	1.84	9.34	7.00	11.18	9.00	9.58	9.50
1654	0.97	0.92	1.89	2.00	0.83	6.59	4.80	7.42	8.00	12.22	10.00	5.95	5.00
1655	0.44	1.58	2.02	2.10	1.18	5.67	6.55	6.85	9.00	13.40	12.00	2.70	2.25
1656	0.95	1.60	2.55	2.10	0.72	6.07	6.48	6.79	9.00	13.27	12.00	2.44	2.25
1661	.....	.....	.....	.....	13.91	3.25	0.45	17.16	16.00	17.61	17.00	.....	.....
1662	0.74	0.46	1.20	1.05	4.40	3.48	1.08	7.88	6.00	8.96	7.00	2.75	4.00
1663	1.17	0.22	1.39	1.05	2.74	3.30	0.96	6.04	6.00	7.00	7.00	4.03	4.00
1664	0.31	0.56	0.87	0.85	2.09	4.87	1.56	6.96	6.00	8.52	9.00	5.18	3.00
1666	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49.08	50.00	
1667	15.61	15.61	15.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	
1668	1.16	0.46	1.62	1.85	5.30	3.64	0.96	8.94	7.00	9.90	8.00	3.52	3.00
1669	1.15	0.54	1.69	2.00	5.44	3.98	0.76	9.42	7.00	10.18	8.00	7.30	8.00
1670	1.32	0.66	1.98	2.00	3.43	5.00	0.98	8.43	7.00	9.41	8.00	7.74	8.00
1671	6.84	1.18	8.02	7.00	0.10	7.69	0.46	7.79	3.00	8.25	7.00	8.07	8.00
1672	0.72	0.06	0.78	0.40	6.86	2.17	0.08	9.03	7.00	9.11	8.00	2.23	2.00
1673	0.61	0.10	0.71	0.40	6.17	3.54	0.61	9.71	7.00	10.32	8.00	2.51	2.00
1674	1.43	0.68	2.11	2.20	4.47	3.91	0.54	8.38	6.00	8.92	7.00	9.34	10.00
1676	1.88	1.31	3.19	3.30	2.93	6.26	1.72	9.19	6.50	10.91	9.50	10.51	10.00
1678	2.97	0.90	3.87	3.33	2.71	4.51	2.25	7.22	7.00	9.47	8.00	7.43	10.00

*Descriptive List of Station Samples, 1906.*

Station number.	Manufacturer, place of business and brand.
	<b>SWIFT'S LOWELL FERTILIZER COMPANY, BOSTON, MASS.</b>
1685	Acid Phosphate.....
1686	Ground Bone.....
1687	Muriate of Potash.....
1688	Nitrate of Soda.....
1689	Swift's Lowell Animal Brand.....
1690	Swift's Lowell Animal Brand.....
1693	Swift's Lowell Bone Fertilizer.....
1694	Swift's Lowell Bone Fertilizer.....
1695	Swift's Lowell Cereal Fertilizer.....
1696	Swift's Lowell Cereal Fertilizer.....
1698	Swift's Lowell Dissolved Bone and Potash .....
1699	Swift's Lowell Dissolved Bone and Potash .....
1701	Swift's Lowell Empress Brand.....
1702	Swift's Lowell Empress Brand.....
1703	Swift's Lowell Potato Grower.....
1705	Swift's Lowell Potato Manure.....
1706	Swift's Lowell Potato Manure.....
1708	Swift's Lowell Potato Phosphate.....
1709	Swift's Lowell Potato Phosphate.....
1711	Swift's Lowell Superior Fertilizer with 10% Potash.....
1712	Swift's Lowell Superior Fertilizer with 10% Potash.....
	<b>WHITMAN &amp; PRATT RENDERING COMPANY, LOWELL, MASS.</b>
1715	Potash Special.....
1716	Vegetable Grower.....

*Analyses of Station Samples, 1906.*

Station number.	NITROGEN.				PHOSPHORIC ACID.						POTASH.	
	Soluble in water.	Insoluble in water.	Total.	Guaranteed.	Soluble.	Insoluble.	Available.	Total.	Found.	Guaranteed.	Found.	Guaranteed.
	%	%	%	%	%	%	%	%	%	%	%	%
1685					1.23	9.94	3.70	11.17	12.00	14.87	14.00	
1686	0.74	2.58	3.32	2.47						24.71	23.00	
1687												45.08 50.00
1688	15.25	.....	15.25	15.00								
1689	1.21	1.16	2.31	2.40	6.79	3.92	2.58	10.71	9.00	13.29	10.00	4.25 4.00
1690	1.32	1.11	2.43	2.46	6.64	3.98	2.67	10.62	9.00	13.29	10.00	4.19 4.00
1693	1.01	0.72	1.73	1.64	6.78	2.52	1.91	9.30	8.00	11.21	9.00	3.24 3.00
1694	1.11	0.73	1.84	1.64	6.65	2.53	2.08	9.18	8.00	11.26	9.00	3.21 3.00
1695	0.40	0.49	0.89	0.82	4.63	2.71	1.19	7.34	7.00	8.53	8.00	1.23 1.00
1696	0.31	0.53	0.84	0.82	4.77	2.31	1.10	7.08	7.00	8.18	8.00	1.16 1.00
1698	0.77	0.84	1.61	1.64	5.71	4.22	2.99	9.93	9.00	12.92	10.00	2.21 2.00
1699	0.64	0.98	1.62	1.64	7.40	3.51	1.96	10.91	9.00	12.87	10.00	2.00 2.00
1701	0.64	0.70	1.34	1.23	5.23	2.45	1.59	7.68	7.00	9.27	8.00	2.18 2.00
1702	0.68	0.62	1.30	1.23	4.90	2.41	1.16	7.31	7.00	8.47	8.00	2.13 2.00
1703	2.19	0.92	3.11	3.28	3.91	3.38	1.29	7.29	6.00	8.58	7.00	10.55 10.00
1705	1.01	0.75	1.76	1.64	5.47	2.88	1.43	8.35	7.00	9.78	8.00	5.11 4.00
1706	0.87	0.81	1.68	1.64	5.47	3.41	1.65	8.88	7.00	10.53	8.00	4.20 4.00
1708	1.38	1.05	2.43	2.46	5.14	2.68	1.49	7.82	8.00	10.37	9.00	6.00 6.00
1709	1.36	1.02	2.38	2.46	5.61	2.96	1.56	8.57	8.00	10.13	9.00	6.27 6.00
1711	2.03	1.41	3.44	3.69	3.72	5.16	1.85	8.88	7.00	10.73	8.00	9.92 10.09
1712	1.95	1.22	3.17	3.69	4.21	4.61	1.59	8.82	7.00	10.41	8.00	10.17 10.09
1715	0.74	1.64	2.38	2.89	2.07	7.16	2.09	9.23	6.00	11.32	8.00	10.49 10.00
1716	2.52	1.01	3.53	3.29	1.60	7.61	1.19	9.21	8.00	10.40	10.00	6.56 7.00

*Descriptive List of Manufacturer's Samples Licensed After  
March 1, 1906.*

Station number.	Manufacturer, place of business and brand.											
	BOWKER FERTILIZER COMPANY, BOSTON, MASS.											
1118	Special Potato Manure for the Grange.....											
	LISTER'S AGRICULTURAL CHEMICAL WORKS, NEWARK, N. J.											
1143	Bone Meal.....											
	SAGADAHOC FERTILIZER COMPANY, BOWDOINHAM, ME.											
1200	3-6-10 Fertilizer.....											
	R. T. PRENTISS COMPANY, PRESQUE ISLE, ME.											
1214	Tuscorora Fruit and Potato.....											
	WHITMAN & PRATT RENDERING COMPANY, LOWELL, MASS.											
1216	Ammoniated Superphosphate.....											
1217	Potato Manure.....											
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.											
1218	Fruit and Root Crop Special.....											
	J. W. SANBORN, GILMANTON, N. H.											
1219	Sanborn's Chemical Fertilizer for Potatoes.....											
	SWIFT'S LOWELL FERTILIZER COMPANY, BOSTON, MASS.											
1220	Swift's Potato Grower.....											
1221	Swift's Special Bone and Potash.....											

*Analyses of Manufacturers Samples, 1906.*

Station number.	NITROGEN.						PHOSPHORIC ACID.						POTASH.		
	Soluble in water.	Insoluble in water.	Total.		Soluble.	Reverted.	Insoluble.	Available.		Found.	Guaranteed.	Total.		Found.	Guaranteed.
			Found.	Guaranteed.				Found.	Guaranteed.			Found.	Total.	Found.	Guaranteed.
1118	0.79	1.52	2.36	1.50	4.04	5.69	1.71	9.73	9.00	11.44	12.00	11.40	12.00		
1143	0.58	3.12	3.70	2.68	.....	.....	.....	.....	.....	25.33	23.00	.....	.....		
1200	1.63	0.56	2.19	2.20	3.51	5.12	1.08	8.63	6.00	9.71	7.00	9.27	10.00		
1214	0.52	1.26	1.78	1.65	5.77	3.06	0.79	8.83	8.00	9.62	10.00	10.31	10.00		
1216	0.33	0.80	1.13	0.82	5.28	4.72	1.61	10.00	8.00	11.61	10.00	2.41	3.00		
1217	1.34	1.01	2.35	2.47	2.44	4.81	1.28	7.25	7.00	8.53	9.00	5.41	5.00		
1218	1.02	0.78	1.80	1.65	4.85	3.70	1.01	8.55	8.00	9.56	10.00	5.69	5.00		
1219	1.72	1.65	3.37	3.30	3.49	5.91	1.11	9.40	6.50	10.51	9.50	11.00	10.00		
1220	1.16	2.10	3.26	3.28	2.73	6.56	0.89	9.29	6.00	10.18	7.00	10.40	10.00		
1221	.....	.....	.....	.....	6.59	3.21	1.33	9.80	10.00	11.13	31.00	2.76	2.00		

[Continued from page 177.]

So far as different lots were found by the inspector two analyses of the same brand are given in the tables. A few brands that were licensed were not actually shipped into the State and in two or three instances the inspector failed to find the brands in the hands of the dealers or agents.

During the years immediately following 1895 there was a tendency to the multiplication of brands. At present it is only rarely that a company that has been doing business in the State for years offers a new brand. With the growth of the sale of fertilizers in the State, companies that formerly did no business in Maine are now sending their goods to the State. This of course results in an increase in the number of brands. While it is unfortunate that so many farmers buy fertilizers from a name rather than from the amount of plant food contained in the fertilizer, it is gratifying that brands are not being unnecessarily multiplied. There has been a constant increase from the 20 brands licensed in 1885 to 200 or more brands of complete manures and single ingredient chemicals licensed in 1906.

When the manufacturers first put their goods upon the market, recognizing the difficulty of accurate mixing, they placed a somewhat elastic guarantee upon them. For instance, potash might be guaranteed 4 to 5 per cent and for the most part the goods would carry 4.5 per cent of potash. As competition became closer and the process of manufacture became somewhat more trustworthy, the manufacturers worked closer and closer to the minimum guarantee so that at present it rarely happens that high grade fertilizers carry much above the minimum percentages of nitrogen and potash, the more costly constituents of a fertilizer. If this were the whole story there would be nothing to complain of, but up to the present year there has been an increasing tendency to fail to maintain the goods up to their minimum guarantee.

For the most part these are slight and generally in only one constituent. It also frequently happens that the other constituents are in sufficient excess to preclude any idea of intention on the part of the manufacturer not to live up to the guarantee. Usually the trouble is due to incomplete mixing. For instance in some formulas not more than 100 pounds of nitrate of soda are used per ton. Nitrate of soda is a crystalline material and

it is difficult to so completely powder it and thoroughly incorporate it in the goods that the sample drawn in the inspector's tube shall have its just amount—neither too much nor yet too little. To try to meet this difficulty, the samples are taken from a large number of packages and the final sub-sample is taken with the greatest care. It is because of the difficulty of accurate sampling of fertilizers that the Station only undertakes the analysis of samples taken by its inspector, and employs an experienced chemist who from his laboratory experience fully recognizes the importance and difficulties of correct sampling.

It is only fair to the manufacturers to say that probably no class of goods are more nearly sold on their merits than are commercial fertilizers. So far as the writer knows, there has not been a case in 10 years that could be called a wilful attempt on the part of a maker of fertilizers sold in Maine to defraud.

#### THE COMPARISON OF STATION ANALYSES FOR THREE YEARS.

It is important that the purchaser of fertilizers should know the analyses not merely for the current year but as a guide for future purchase to know how they have run for several years. The tables on pages 178 and following of this bulletin, show how the samples collected by the Station inspector in 1906 compare with the guarantees. The tables beginning on page 197 give the analyses, so far as total nitrogen, available phosphoric acid and potash are concerned, for the years 1904, 1905, and 1906. When the guarantees have been changed from that of previous years, the fact is indicated by a foot note.

In studying the table of comparisons of the analyses of Station samples for three years, it will be found that many goods run quite uniform year after year. This is particularly true as regards phosphoric acid, and this is readily understood when it is remembered that the superphosphate is the starting point and that the materials furnishing nitrogen and potash are usually added to this. The potash and nitrogen are the more expensive substances in fertilizers and the more difficult to mix and hence greater variation is found in these constituents.

*Summary of results of fertilizer analyses for the years 1904, 1905, and 1906.*

Name of fertilizer.	Year.	Total nitrogen.	Available phosphoric acid.	Potash.
A. A. C. Co. Aroostook Complete Manure.....	1906	Per ct. 2.56	Per ct. 7.17	Per ct. 10.21
A. A. C. Co. Aroostook High Grade .....	1906	4.35	8.15	6.31
Bradley's Alkaline Bone with Potash .....	1904	.....	9.85	2.16
	1905	.....	10.69	1.95
	1906	.....	11.19	2.10
Bradley's Comp. Manure for potatoes and vegetables.	1904	3.06	7.97	6.70
	1905	3.05	7.79	6.92
	1906	3.27	8.69	6.79
Bradley's Complete Manure with 10% Potash.....	1904	3.27	6.60	11.02
	1905	3.32	5.56	9.66
	1906	3.36	7.03	9.79
Bradley's Corn Phosphate .....	1904	2.14	8.93	1.80
	1905	2.11	8.05	1.87
	1906	2.18	8.51	2.06
Bradley's Eureka Fertilizer .....	1904	1.14	8.34	2.23
	1905	1.10	8.42	2.36
	1906	1.19	8.55	2.14
Bradley's Niagara Phosphate .....	1904	1.18	8.34	2.18
	1905	1.10	6.50	1.27
	1906	1.19	9.14	1.97
Bradley's Potato Fertilizer.....	1904	2.22	7.93	3.66
	1905	1.96	7.74	3.41
	1906	2.10	9.46	3.04
Bradley's Potato Manure.....	1904	2.60	7.14	5.93
	1905	2.56	6.84	5.26
	1906	2.60	6.76	5.01
Bradley's X. L. Superphosphate of Lime .....	1904	2.25	9.17	2.23
	1905	2.33	8.69	2.22
	1906	2.55	9.26	2.40
Clark's Cove Bay State Fertilizer .....	1904	2.48	8.73	2.42
	1905	2.32	9.39	2.33
	1906	2.58	8.95	2.57
Clark's Cove Bay State Fertilizer G. G .....	1904	2.32	8.06	1.71
	1905	1.94	8.19	1.92
	1906	2.09	7.94	1.95
Clark's Cove Bay State Fertilizer for Seeding Down..	1904	1.17	8.74	2.19
	1905	1.06	8.14	1.80
	1906	1.13	8.42	2.04
Clark's Cove Defiance Complete Manure .....	1904	0.82	7.93	1.40
	1905	1.06	6.29	1.43
	1906	1.39	8.04	2.29
Clark's Cove Great Planet Manure A. A.....	1904	3.38	7.89	7.36
	1905	3.24	7.05	6.64
	1906	3.39	8.01	7.60
Clark's Cove King Phillip Alkaline Guano.....	1904	1.11	8.30	2.13
	1905	1.09	7.89	1.78
	1906	1.10	8.48	2.09

*Summary of results of fertilizer analyses for the years 1904,  
1905, and 1906.*

Name of fertilizer.	Year.	Total nitrogen. Per ct.	Available phosphoric acid. Per ct.	Potash. Per ct.
Clark's Cove Potato Fertilizer .....	1904	1.94	8.08	3.17
Clark's Cove Potato Manure.....	1905	2.03	8.13	2.99
	1906	2.05	8.26	3.36
Cleveland Fertilizer for all Crops.....	1904	2.56	6.92	5.62
Clark's Cove Potato Manure.....	1905	2.58	6.27	5.62
	1906	2.61	7.07	5.48
Cleveland High Grade Complete Manure .....	1904	1.08	7.96	2.09
Cleveland Fertilizer for all Crops.....	1905	1.00	9.76	2.18
	1906	1.38	8.21	2.43
Cleveland Potato Phosphate .....	1904	3.37	7.58	7.65
Cleveland High Grade Complete Manure .....	1905	3.07	6.54	6.62
	1906	2.95	8.16	7.91
Cleveland Seeding Down Fertilizer.....	1904	2.10	8.47	3.02
Cleveland Superphosphate .....	1905	2.01	8.75	3.02
	1906	2.14	8.08	3.13
Crocker's Ammoniated Corn Phosphate .....	1904	1.04	9.02	2.04
Crocker's Aroostook Potato Special .....	1906	1.11	8.31	2.10
Crocker's Grass and Oats Fertilizer.....	1904	2.08	7.98	1.81
Crocker's New Rival Ammoniated Superphosphate..	1905	1.71	8.13	1.68
	1906	2.14	7.57	1.84
Crocker's Potato, Hop and Tobacco.....	1904	3.12	5.64	9.74
Crocker's Special Potato Manure .....	1905	3.26	5.70	10.79
	1906	3.17	6.42	9.85
Crocker's High Grade .....	1904	2.14	8.33	1.82
Crocker's Aroostook Potato Special .....	1905	1.85	7.40	1.75
	1906	2.19	8.03	1.87
Crocker's Grass and Oats Fertilizer.....	1904	1.99	8.61	6.26
Crocker's New Rival Ammoniated Superphosphate..	1905	2.01	7.45	5.95
	1906	2.00	8.69	5.90
Crocker's Potato, Hop and Tobacco.....	1904	.....	9.87	2.19
Crocker's Special Potato Manure .....	1905	.....	9.89	2.10
	1906	.....	10.58	2.14
Crocker's High Grade .....	1906	3.23	8.15	6.58
Crocker's New Rival Ammoniated Superphosphate..	1904	1.14	7.90	2.03
	1905	1.13	7.97	1.98
	1906	1.31	8.28	2.30
Cumberland Guano for all Crops.....	1904	1.92	7.54	3.19
Crocker's Special Potato Manure .....	1905	2.04	8.07	2.97
	1906	2.04	7.99	3.10
Crocker's Potato, Hop and Tobacco.....	1904	2.78	6.98	10.28
Crocker's Special Potato Manure .....	1905	3.32	7.03	8.44
	1906	3.33	6.73	10.91
Cumberland Guano for all Crops.....	1904	1.14	8.00	2.15
	1905	1.40	7.90	2.05
	1906	1.04	8.79	2.29

*Summary of results of fertilizer analyses for the years 1904,  
1905, and 1906.*

Name of fertilizer.	Year.	Total nitrogen.	Available phosphoric acid.	Potash.
		Per ct.	Per ct.	Per ct.
Cumberland Potato Fertilizer.....	1904	2.40	9.44	3.09
	1905	2.05	8.01	3.11
	1906	2.21	8.51	3.34
Cumberland Seeding Down Manure .....	1904	1.26	8.65	2.09
	1905	1.16	8.05	2.16
	1906	1.14	9.09	2.24
Cumberland Superphosphate.....	1904	2.18	8.54	1.71
	1905	1.91	7.31	*1.54
	1906	2.12	7.87	2.43
Darling's Blood, Bone and Potash .....	1904	3.83	7.21	7.53
	1905	3.77	5.95	6.70
	1906	4.32	6.69	8.09
Grass and Lawn Top Dressing .....	1905	4.80	4.86	3.32
	1906	4.93	5.84	2.62
Great Eastern General Fertilizer.....	1904	1.02	8.04	4.28
	1905	0.81	6.26	3.93
	1906	0.99	7.55	3.87
Great Eastern Grass and Oats Fertilizer .....	1904	.....	9.96	2.29
	1905	.....	10.06	2.19
	1906	.....	10.61	2.06
Great Eastern High Grade Potato Manure .....	1904	3.42	6.23	11.17
	1905	3.21	6.43	9.72
	1906	3.48	7.38	10.13
Great Eastern Northern Corn Special.....	1904	2.30	8.06	1.82
	1905	2.05	7.67	1.81
	1906	2.39	8.80	2.06
Great Eastern Potato Manure .....	1904	1.85	8.64	3.30
	1905	2.10	7.60	3.18
	1906	2.10	8.30	3.32
Great Eastern Potato Special.....	1906	3.35	8.45	7.32
High Grade Fertilizer with 10% Potash.....	1904	2.46	7.22	10.18
	1905	2.48	5.63	9.68
	1906	2.61	6.48	10.26
Lazaretto Aroostook Potato Guano .....	1904	1.16	7.63	3.76
	1905	0.84	7.03	4.11
	1906	0.98	8.30	4.06
Lazaretto Corn Guano .....	1904	1.84	7.63	2.11
	1905	2.28	7.48	2.37
	1906	2.16	7.42	2.37
Lazaretto High Grade Potato Manure .....	1904	3.24	5.41	10.83
	1905	3.02	5.00	10.13
	1906	3.38	6.10	10.58

\* Guarantee changed in 1905.

† Guarantee changed in 1906.

*Summary of results of fertilizer analyses for the years 1904,  
1905, and 1906.*

Name of fertilizer.	Year.	Total	Available	Potash.
		Nitrogen.	phosphoric acid.	
Lazaretto Propeller Potato Guano.....	1904	1.96	8.31	5.88
	1905	1.73	8.32	5.81
	1905	2.05	8.16	5.62
Otis' Potato Fertilizer.....	1904	2.14	7.60	3.03
	1905	2.07	7.20	3.05
	1906	2.03	8.46	3.11
Otis' Seeding Down Fertilizer.....	1904	1.14	8.23	2.06
	1905	1.10	7.46	2.14
	1906	1.17	8.54	2.22
Otis' Superphosphate .....	1904	2.20	9.95	1.72
	1905	2.06	7.42	1.78
	1906	2.23	9.19	1.96
Pacific Dissolved Bone and Potash .....	1904	.....	9.46	2.17
	1905	.....	8.93	2.00
	1906	.....	10.29	2.08
Pacific Grass and Grain Fertilizer .....	1904	0.94	6.94	1.17
	1905	0.82	7.94	1.22
	1906	1.16	8.96	1.51
Pacific High Grade General Fertilizer.....	1904	3.84	7.98	6.49
	1905	3.09	7.23	7.33
	1906	3.17	8.34	7.07
Pacific Nobsque Guano.....	1904	1.24	9.90	2.14
	1905	1.10	7.49	1.96
	1906	1.12	8.50	2.29
Pacific Potato Special.....	1904	2.01	8.56	3.28
	1905	1.95	7.72	3.19
	1906	2.07	7.55	3.42
Packer's Union Animal Corn Fertilizer .....	1904	2.56	10.05	2.23
	1905	2.36	8.94	2.35
	1906	2.50	9.26	2.38
Packer's Union Economical Vegetable Guano.....	1904	1.26	7.32	3.71
	1905	1.26	6.09	3.80
	1906	1.37	6.66	4.49
Packer's Union Gardeners Complete Manure.....	1904	2.22	6.40	10.35
	1905	2.25	5.48	8.65
	1906	2.47	6.67	10.26
Packer's Union High Grade .....	1906	3.25	8.48	7.27
Packer's Union Potato Manure.....	1904	2.00	8.75	6.07
	1905	1.92	8.21	5.44
	1906	2.21	9.12	6.40
Packer's Union Universal Fertilizer.....	1904	1.06	8.15	3.80
	1905	0.69	6.68	4.07
	1906	1.24	8.25	4.18

*Summary of results of fertilizer analyses for the years 1904, 1905, and 1906.*

Name of fertilizer.	Year.	Total Nitrogen.	Available phosphoric acid.	Potash.
		Per ct.	Per ct.	Per ct.
		11.16	2.45	
Packer's Union Wheat, Oats and Clover Fertilizer....	1906 .....			
Quinnipiac Climax Phosphate for all Crops .....	1904	1.43	8.34	2.78
Quinnipiac Climax Phosphate for all Crops .....	1905	1.13	7.16	1.94
Quinnipiac Climax Phosphate for all Crops .....	1906	1.18	8.60	2.05
Quinnipiac Corn Manure.....	1904	2.34	9.89	1.78
Quinnipiac Corn Manure.....	1905	1.86	8.05	1.71
Quinnipiac Corn Manure.....	1906	2.13	8.63	2.23
Quinnipiac Market Garden Manure.....	1904	3.07	7.66	6.48
Quinnipiac Market Garden Manure.....	1905	3.17	9.18	6.48
Quinnipiac Market Garden Manure.....	1906	3.33	8.16	7.28
Quinnipiac Mohawk Fertilizer.....	1904	0.88	7.11	1.13
Quinnipiac Mohawk Fertilizer.....	1905	0.88	6.80	1.29
Quinnipiac Mohawk Fertilizer.....	1906	1.22	8.39	2.29
Quinnipiac Potato Manure .....	1904	2.38	6.98	5.24
Quinnipiac Potato Manure .....	1905	2.56	6.13	5.25
Quinnipiac Potato Manure .....	1906	2.59	7.54	5.05
Quinnipiac Potato Phosphate .....	1904	2.06	7.98	2.82
Quinnipiac Potato Phosphate .....	1905	2.09	7.58	2.80
Quinnipiac Potato Phosphate .....	1906	2.08	8.84	3.35
Read's Farmers' Friend Superphosphate .....	1904	2.29	8.05	3.00
Read's Farmers' Friend Superphosphate .....	1905	2.10	8.05	3.03
Read's Farmers' Friend Superphosphate .....	1906	2.03	8.42	3.76
Read's High Grade Farmer's Friend.....	1904	3.12	5.64	9.74
Read's High Grade Farmer's Friend.....	1905	3.32	5.08	11.68
Read's High Grade Farmer's Friend.....	1906	3.31	6.55	7.38
Read's Potato Manure .....	1904	3.62	7.07	11.36
Read's Potato Manure .....	1905	2.42	5.38	9.48
Read's Potato Manure .....	1906	2.59	6.10	9.76
Read's Practical Potato Special .....	1904	0.98	4.95	10.04
Read's Practical Potato Special .....	1905	1.52	4.21	8.01
Read's Practical Potato Special .....	1906	1.05	5.87	6.65
Read's Standard Superphosphate .....	1904	1.24	8.26	4.26
Read's Standard Superphosphate .....	1905	1.06	7.14	4.03
Read's Standard Superphosphate .....	1906	1.00	7.92	3.95
Read's Sure Catch Fertilizer.....	1904 .....		10.50	2.21
Read's Sure Catch Fertilizer.....	1905 .....		10.46	2.08
Read's Sure Catch Fertilizer.....	1906 .....		9.69	2.06
Read's Vegetable and Vine Fertilizer .....	1904	1.94	8.22	6.45
Read's Vegetable and Vine Fertilizer .....	1905	1.86	7.37	6.06
Read's Vegetable and Vine Fertilizer .....	1906	2.12	8.34	5.16
Soluble Pacific Guano .....	1904	2.16	7.86	1.80
Soluble Pacific Guano .....	1905	2.26	8.17	1.51
Soluble Pacific Guano .....	1906	2.10	8.25	1.99

*Summary of results of fertilizer analyses for the years 1904,  
1905, and 1906.*

Name of fertilizer.	Year.	Total nitrogen.	Available phosphoric acid.	Potash.
		Per ct.	Per ct.	Per ct.
Standard A. Brand.....	1904	1.14	8.00	2.20
	1905	1.40	6.34	2.20
	1906	1.19	8.03	1.67
Standard Bone and Potash .....	1904	.....	9.79	2.20
	1905	.....	8.83	2.07
	1906	.....	10.79	2.03
Standard Complete Mauure .....	1904	2.23	8.64	7.27
	1905	3.20	7.90	6.45
	1906	3.38	8.19	7.38
Standard Fertillzer .....	1904	2.14	8.44	1.86
	1905	1.87	8.07	1.73
	1906	2.24	7.97	1.86
Standard Guano for all Crops.....	1904	1.12	8.83	2.18
	1905	1.11	7.94	1.90
	1906	1.22	8.18	2.14
Standard Special for Potatoes.....	1904	2.30	9.01	3.16
	1905	1.99	7.84	2.94
	1906	2.14	8.22	3.07
Williams & Clark's Americus Ammoniated Bone Superphosphate .....	1905	2.37	8.86	1.97
	1906	2.43	9.29	2.25
	1904	2.15	8.45	1.67
Williams & Clark's Americus Corn Phosphate .....	1905	1.89	8.67	1.60
	1906	2.18	8.14	1.97
	1904	2.86	7.44	6.40
Williams & Clark's Americus High Grade Special. .	1905	3.06	6.80	6.87
	1906	3.30	8.55	7.15
	1904	2.14	8.27	3.25
Williams & Clark's Americus Potato Manure.....	1905	1.99	7.71	2.93
	1906	2.05	8.11	3.24
	1904	1.20	7.94	2.41
Williams & Clark's Royal Bone Phosphate for all Crops	1905	1.16	7.88	2.34
	1906	1.16	7.93	2.18
	1906	2.71	9.44	4.02
Armour's All Soluble.....	1906	3.90	7.94	8.39
Armour's Bone, Blood and Potash .....	1906	1.86	8.34	5.77
Armour's Fruit and Root Crop Special .....	1906	1.67	8.46	2.05
Armour's Grain Grower.....	1906	1.61	8.42	9.86
Armour's High Grade Potato Fertilizer .....	1906	0.92	8.10	1.03
Bowker's Bone, Blood and Potash .....	1904	4.16	8.86	7.07
	1905	3.88	6.10	6.37
	1906	4.02	7.60	7.01
Bowker's Bone and Potash Square Brand.....	1904	1.88	9.44	2.09
	1905	1.78	7.26	*2.01
	1906	2.04	7.85	2.29

\* Guarantee changed in 1905.

*Summary of results of fertilizer analyses for the years 1904, 1905, and 1906.*

Name of fertilizer.	Year.	Total nitrogen.	Available phosphoric acid.	Potash.
Bowker's Corn Phosphate .....	1904	1.94	7.67	2.03
	1905	1.86	7.66	2.37
	1906	2.01	7.78	2.45
Bowker's Early Potato Manure .....	1904	3.26	7.29	6.82
	1905	3.01	7.85	6.65
	1906	3.36	7.66	7.56
Bowker's Farm and Garden Phosphate .....	1904	1.78	7.53	2.19
	1905	1.85	7.61	2.26
	1906	1.88	8.04	2.27
Bowker's Hill and Drill Phosphate .....	1904	2.25	9.05	2.18
	1905	2.43	8.86	2.23
	1906	2.44	9.28	2.33
Bowker's Market Garden Fertilizer .....	1904	2.20	7.13	10.39
	1905	2.27	5.71	9.32
	1906	2.77	6.61	9.90
Bowker's Potash Bone .....	1904	1.00	7.42	2.08
	1905	1.02	8.17	1.72
	1906	1.16	8.81	2.11
Bowker's Potash or Staple Phosphate .....	1904	0.83	7.78	2.85
	1905	1.04	8.21	2.88
	1906	1.19	8.28	3.34
Bowker's Potato and Vegetable Fertilizer .....	1904	2.47	8.49	4.22
	1905	2.17	8.14	4.60
	1906	2.58	8.76	4.35
Bowker's Potato and Vegetable Phosphate .....	1904	1.55	7.91	2.03
	1905	1.89	7.96	2.14
	1906	1.71	8.77	2.16
Bowker's Six Per Cent Potato Fertilizer .....	1904	1.08	7.47	6.48
	1905	0.82	6.27	5.67
	1906	1.29	7.62	6.34
Bowker's Superphosphate of Potash for Grass and Grain .....	1904	.....	9.73	2.25
	1905	.....	10.35	1.80
	1906	.....	10.40	1.89
Bowker's Sure Crop Phosphate .....	1904	1.14	10.15	2.07
	1905	1.17	7.80	1.86
	1906	1.34	8.57	2.15
Bowker's Ten Per Cent Manure .....	1904	0.71	6.53	9.50
	1905	0.82	5.53	10.75
	1906	1.03	6.95	7.80
Monticello Grange Chemicals .....	1904	2.58	8.52	4.29
	1905	2.34	8.16	4.32
	1906	2.52	8.22	4.01
Special Potato Manure for the Grange .....	1904	1.34	10.17	13.35
	1905	1.44	9.08	11.02
	1906	1.79	9.06	12.06

*Summary of results of fertilizer analyses for the years 1904,  
1905, and 1906.*

Name of fertilizer.	Year.	Total nitrogen.	Available phosphoric acid.	Potash.
Stockbridge's Special Manure for Corn (Class D 107) ..	1904	3.24	7.58	7.03
	1905	2.96	10.54	6.36
	1906	3.55	9.02	†6.12
Stockbridge's Special Manure for the Grass (Class F 56) ..	1906	4.31	6.02	6.20
Stockbridge's Special Manure for Potatoes (Class D 610) ..	1904	3.16	6.09	9.58
	1905	3.20	5.03	10.10
	1906	3.11	6.15	9.74
Stockbridge's Special Manure for Seeding Down (Class C 610) .....	1904	2.38	7.06	10.62
	1905	3.10	7.76	10.11
	1906	2.45	7.01	10.40
E. Frank Coe's Celebrated Special Potato Fertilizer ..	1904	1.76	10.00	4.92
	1905	2.04	7.32	4.11
	1906	1.72	8.22	3.92
E. Frank Coe's Columbian Corn Fertilizer.....	1904	1.40	9.74	2.70
	1905	1.64	7.30	2.93
	1906	1.57	8.16	2.78
E. Frank Coe's Columbian Potato Fertilizer .....	1904	1.36	9.88	2.56
	1905	1.80	8.62	2.70
	1906	1.42	8.68	2.73
E. Frank Coe's Excelsior Potato Fertilizer .....	1904	2.15	8.16	7.43
	1905	*2.68	6.84	8.53
	1906	2.59	7.30	8.38
E. Frank Coe's Grass and Grain Special Fertilizer ....	1904	1.77	8.79	2.61
	1905	1.08	8.99	1.80
	1906	1.09	9.01	1.66
E. Frank Coe's High Grade Ammoniated Bone Super- phosphate .....	1904	2.40	10.58	2.57
	1905	2.42	8.52	2.59
	1906	2.18	9.11	2.77
E. Frank Coe's High Grade Potato Fertilizer .....	1904	2.78	8.37	6.18
	1905	2.70	*8.05	6.02
	1906	2.61	8.34	5.68
E. Frank Coe's New Englander Corn Fertilizer.....	1904	1.04	9.18	3.21
	1905	1.48	8.07	3.17
	1906	1.49	8.27	4.02
E. Frank Coe's New Englander Potato Fertilizer.....	1904	1.04	9.02	3.10
	1905	1.52	6.96	3.24
	1906	1.30	7.39	3.27
E. Frank Coe's Prize Brand Grain and Grass .....	1904	.....	10.01	3.31
	1905	....	8.11	2.01
	1906	.....	11.05	1.87
E. Frank Coe's Red Brand Excelsior Guano .....	1904	3.32	10.68	6.11
	1905	*3.13	8.40	5.94
	1906	3.24	8.80	6.45
E. Frank Coe's Standard Grade Ammoniated Bone Superphosphate .....	1904	1.30	9.96	2.26
	1905	1.82	8.39	2.22
	1906	1.49	9.26	2.37

\* Guarantee changed in 1905.

† Guarantee changed in 1906.

*Summary of results of fertilizer analyses for the years 1904, 1905, and 1906.*

Name of fertilizer.	Year.	Total nitrogen.	Available phosphoric acid.	Potash.
Dexter Special Potato Manure .....	1906	Per ct. 3.47	Per ct. 7.35	Per ct. 9.87
Hubbard's Bone, Blood and Potash.....	1905	2.91	7.97	7.51
	1906	3.41	7.89	7.34
Hubbard's Farmers' I. X. L. Superphosphate .....	1905	1.76	7.52	2.26
	1906	2.17	8.07	2.18
Hubbard's Royal Ensign .....	1905	2.10	7.72	4.81
	1906	2.41	7.04	4.02
Watson's Improved High Grade Potato Manure .....	1904	3.06	5.88	5.23
	1905	2.84	5.83	5.11
	1906	3.17	7.24	5.24
Lister's Animal Bone and Potash.....	1904 .....	10.14	2.25	
	1905 .....	*10.42	1.96	
	1906 .....	10.50	2.06	
Lister's High Grade Special for Spring Crops.....	1904	1.72	8.45	9.70
	1905	1.59	7.88	9.45
	1906	1.81	8.20	8.81
Lister's Oneida Special .....	1904	1.10	7.25	1.43
	1905	0.98	5.84	2.44
	1906	1.33	7.99	1.73
Lister's Potato Manure .....	1904	2.99	7.25	7.28
	1905	3.11	7.21	8.11
	1906	3.21	8.38	6.47
Lister's Special Corn Fertilizer .....	1904	1.92	8.69	3.18
	1905	1.64	7.50	3.03
	1906	1.99	7.91	3.20
Lister's Special Potato Fertilizer .....	1904	1.94	8.78	3.29
	1905	1.57	7.65	2.94
	1906	1.90	7.85	2.95
Lister's Success Fertilizer .....	1904	1.38	9.07	2.23
	1905	*1.28	8.63	1.94
	1906	1.39	9.42	2.47
Lister's 10% Potato Grower.....	1906	3.18	6.62	10.38
Chittenden's Complete Root Fertilizer .....	1904	3.25	9.17	6.62
	1905	3.14	7.86	6.79
	1906	3.14	8.12	7.67
Chittenden's Eureka Potato Fertilizer .....	1906	3.19	6.77	10.37
Chittenden's Excelsior Potato Fertilizer .....	1906	3.48	5.25	10.44
Chittenden's Market Garden Fertilizer .....	1904	2.68	6.16	5.20
	1905	2.48	6.72	5.50
	1906	2.30	6.62	5.11
New England Complete Manure .....	1905	3.04	*8.11	*9.40
	1906	3.31	7.16	8.30

\* Guarantee changed in 1905.

*Summary of results of fertilizer analyses for the years 1904,  
1905, and 1906.*

Name of fertilizer.	Year.	Total nitrogen.	Available phosphoric acid.	Potash.
New England Corn and Grain Fertilizer.....	1904	1.36	7.07	2.21
	1905	1.34	7.32	2.34
	1906	1.29	7.21	2.17
New England Corn Phosphate.....	1904	1.56	7.00	3.05
	1905	1.50	8.37	3.00
	1906	1.75	8.35	3.10
New England High Grade Potato Fertilizer .....	1904	2.50	9.43	6.16
	1905	2.38	7.60	6.12
	1906	†2.41	8.41	6.44
New England High Grade Special with 10% Potash ...	1905	3.72	7.31	10.63
	1906	3.38	8.19	9.78
New England Market Garden Manure .....	1906	4.16	9.16	5.39
New England Potato Fertilizer.....	1904	1.96	7.56	4.15
	1905	1.57	7.18	4.27
	1906	1.92	8.06	4.23
New England Potato Grower.....	1906	2.28	7.18	9.74
New England Superphosphate .....	1904	2.24	9.36	4.21
	1905	2.06	8.59	4.15
	1906	2.42	9.87	3.93
Excelsior Potato Fertilizer.....	1905	3.13	6.87	11.62
	1906	3.41	6.37	9.73
P. & P. A. A. Brand.....	1904	3.53	8.05	8.80
	1905	4.14	7.26	7.82
	1906	3.98	8.23	8.24
P. & P. Aroostook Special.....	1904	3.90	6.93	9.95
	1905	3.44	6.82	10.13
	1906	†3.53	8.27	9.67
P. & P. Grain Grower.....	1904	0.98	5.10	2.00
	1906	1.01	7.48	2.30
P. & P. Potato Fertilizer .....	1904	1.82	5.24	6.10
	1906	1.66	6.83	4.90
Plymouth Rock Brand Fertilizer.....	1904	2.26	8.64	4.31
	1905	2.34	8.05	4.32
	1906	2.37	8.69	4.08
P. & P. Special Potato Fertilizer .....	1904	3.12	7.61	7.27
	1905	3.00	8.06	7.37
	1906	3.07	9.03	7.34
Star Brand Superphosphate .....	1904	1.48	6.69	2.24
	1905	1.66	6.63	3.32
	1906	1.52	7.53	2.62
Prentiss Aroostook Complete Fertilizer .....	1906	3.20	6.78	9.97
Prentiss Aroostook Special.....	1906	2.67	8.79	8.44
Prentiss Aroostook Standard.....	1906	2.19	9.12	5.11

† Guarantee changed in 1906.

*Summary of results of fertilizer analyses for the years 1904,  
1905, and 1906.*

Name of fertilizer.	Year.	Total nitrogen.	Available phosphoric acid.	Potash.
Tuscarora Fruit and Potato Fertilizer.....	1906	Per ct. 1.59	Per ct. 8.46	Per ct. 9.32
Provincial Ten Per Cent Aroostook Complete Potato	1905	2.73	8.63	10.35
	1906	3.10	7.27	9.62
Provincial Special Potato Phosphate.....	1904	1.68	8.46	6.01
	1905	*2.08	8.04	*5.10
	1906	†2.39	7.28	6.25
Read's Potato Grower.....	1906	3.35	5.83	6.77
Essex A.1 Superphosphate.....	1904	1.32	9.95	1.85
	1905	1.06	5.66	2.34
	1906	1.16	6.06	2.19
Essex Complete Manure for Aroostook County Crops	1906	3.37	9.34	9.58
Essex Market Garden and Potato Manure .....	1904	2.26	7.99	5.28
	1905	2.00	7.11	5.56
	1906	1.89	7.42	5.95
Essex XXX Fish and Potash.....	1904	2.38	7.99	2.28
	1905	2.10	6.94	2.28
	1906	2.28	6.81	2.57
Sagadahoc Aroostook Potato Manure.....	1904	1.38	5.94	4.27
	1905	1.08	5.24	5.56
	1906	1.29	6.96	3.39
Dirigo Grass and Grain Fertilizer.....	1904	0.67	10.12	5.32
	1905	*0.57	7.09	*2.41
	1906	0.87	6.96	5.18
Sagadahoc High Grade Superphosphate .....	1904	1.64	12.57	6.56
	1905	*1.68	*8.51	4.71
	1906	1.62	8.94	3.52
Sagadahoc Special Potato Fertilizer.....	1904	1.78	7.45	8.57
	1905	*2.06	6.68	8.22
	1906	1.83	8.91	7.52
Sagadahoc XX Chemical Fertilizer.....	1904	7.42	4.27	9.35
	1905	7.44	4.54	8.26
	1906	†8.02	7.79	8.07
Yankee Fertilizer.....	1904	0.66	9.22	2.98
	1905	0.60	8.25	2.01
	1906	0.74	9.37	2.38
3-6-10 Fertilizer .....	1906	2.11	8.38	9.34
Sanborn's Special Potato Fertilizer.....	1906	3.19	9.19	10.51
Scientific Potato and Vegetable Fertilizer .....	1905	3.30	7.10	6.45
	1906	3.87	7.22	7.43
Swift's Lowell Animal Brand .....	1904	2.38	9.56	4.23
	1905	2.18	9.37	4.03
	1906	2.37	10.66	4.22
Swift's Lowell Bone Fertilizer... .....	1904	1.61	7.94	3.03
	1905	1.67	8.80	2.97
	1906	1.78	9.24	3.22

\* Guarantee changed in 1905.

† Guarantee changed in 1906.

*Summary of results of fertilizer analyses for the years 1904,  
1905, and 1906.*

Name of fertilizer.	Year.	Total nitrogen.	Available phosphoric acid.	Potash.
Swift's Lowell Cereal Fertilizer.....	1904	Per cent.	Per cent.	Per cent.
	1904	0.80	6.19	1.29
	1905	*0.82	6.44	0.95
	1906	0.86	7.21	1.19
Swift's Lowell Dissolved Bone and Potash .....	1904	1.68	9.13	2.17
	1905	1.59	8.10	2.24
	1906	1.61	10.42	2.10
Swift's Lowell Empress Brand.....	1904	0.79	6.85	2.05
	1905	1.24	7.37	2.16
	1906	1.32	7.50	2.15
Swift's Lowell Potato Grower.....	1906	3.11	7.29	10.55
Swift's Lowell Potato Manure .....	1904	1.78	7.32	3.96
	1905	1.64	7.31	3.90
	1906	1.72	8.61	4.65
Swift's Lowell Potato Phosphate .....	1904	2.43	8.10	6.21
	1905	2.30	7.55	6.00
	1906	2.40	8.19	6.13
Swift's Lowell Superior Fertilizer with 10% Potash...	1905	3.69	7.14	11.99
	1906	3.30	8.85	10.04
Whitman and Pratt's Vegetable Grower.....	1906	3.53	9.21	6.56
Whitman and Pratt's Potash Special .....	1906	†2.38	9.23	10.49

\* Guarantee changed in 1905.

† Guarantee changed in 1906.



## FREE ANALYSIS OF FEEDS, FOODS, FERTILIZERS, AND SEEDS.

---

The Station takes pains to obtain for analysis samples of all brands of fertilizers and feeding stuffs coming under the law. It also draws samples of agricultural seeds and foods in the hands of dealers. The co-operation of dealers and consumers is, however, essential for the full and timely protection of their interests.

*Foods.* Dealers and consumers are invited to send by pre-paid express original and unbroken packages of food materials on sale in Maine of whose purity they are for any reasons suspicious. As prompt free analysis will be made of such samples as circumstances will allow.

*Feeding Stuffs.* The Station will promptly analyze samples of feeding stuffs sold in Maine taken in accordance with directions which will be furnished on application. The results will be reported without charge to interested parties. This applies to dealers and consumers alike.

*Commercial Fertilizers.* It is difficult to draw accurate samples of commercial fertilizers. On this account it is only in rare instances that the Station undertakes analyses of fertilizers other than the samples collected by its representatives. In case there is special reason for an examination, the Station invites correspondence on the subject.

*Agricultural Seeds.* Samples of agricultural seeds on sale in Maine, taken in accordance with directions which can be obtained on application to the Station, will be examined as promptly as possible and the results reported free of charge.

In all cases samples should be accompanied by a full description of the goods, including the name and address of the dealer and the sender. Small samples other than liquids can be forwarded by mail. Others should be forwarded by express, charges prepaid. Both mail and express matter should be addressed to the

AGRICULTURAL EXPERIMENT STATION,  
Orono, Maine.